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# Chesapeake Bay Baseline Data Acquisition Appendix IV. Eutrophication

Chesapeake Research Consortium, Inc, Annapolis, MD

Prepared for

Environmental Protection Agency, Philadelphia, PA. Chesapeake Bay Program

Aug 78

EPA 903/9-78-024

PB 289270

APPENDIX IV

# EUTROPHICATION

A Report
under EPA Contract No. 68-01-3994

August 1978

Chesapeake Research Consortium, Incorporated

prepared by

University of Maryland,
Center for Environmental and Estuarine Studies

and

Virginia Institute of Marine Science

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*Virginia Institute of Marine Science*

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This report identifies researchers conducting current research programs relating to eutrophication in the Chesapeake Bay estuarine system. The data files included in this report are compiled from the Environmental Data Base Directory and reflects data applicable to eutrophication from 1973 to the present.

The report also identifies the major past, present, or planned monitoring efforts.

The data will aid in the design of future research and monitoring efforts for the Chesapeake Bay.

17. KEY WORDS AND DOCUMENT ANALYSIS

| a. DESCRIPTORS | b. IDENTIFIERS/OPEN ENDED TERMS | c. COSATI Field/Group |
|---|---|---|
| Monitors<br>Research<br>Directories | Eutrophication<br>Chesapeake Bay | |

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# CHESAPEAKE BAY BASELINE DATA ACQUISITION

## EUTROPHICATION

Contract No. 68-01-3994

between

U. S. Environmental Protection Agency

and

Chesapeake Research Consortium, Incorporated

August 1978

**Chesapeake Research Consortium, Incorporated**

1419 Forest Drive, Suite 207
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(301) 263-0884

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# INTRODUCTION

This report forms one of several appendices which are the body of the Chesapeake Bay Baseline Data Acquisition Final Report. These appendices are as follows:

Appendix I. A Chesapeake Bay Directory
Appendix II. Submerged Aquatic Vegetation
Appendix III. Toxics in the Cheasapeake Bay
Appendix IV. Eutrophication
Appendix V. Shellfish Bed Closures
Appendix VI. Dredging and Spoil Disposal
Appendix VII. Modification of Fisheries
Appendix VIII. Hydrologic Modifications
Appendix IX. Wetlands Alteration
Appendix X. Effects of Boating and Shipping on Water Quality
Appendix XI. Shoreline Erosion

This report comprises three sections as follows:

Annex I. contains scientists presently engaged in research in this field.



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Annex II. is an indexed listing of data files pertinent to the Chesapeake Bay and adjacent coastal states.

Annex III. summarizes the monitoring efforts as derived from Annex II.

The source material for appendices IV-XI includes minimal material based on interviews, field work and verification. Efforts were directed to determining researchers and their activities from "A Chesapeake Bay Directory" only. For each of the eight subject areas, a key word list was also formulated and the respective pertinent data files compiled from the Environmental Data Base Directory. These files served as the primary source for the monitoring programs section.

VI-

ANNEX I

Directory of Researchers

Eutrophication

VII

This "Directory of Researchers" contains a listing of scientists who are presently working in this field, their affiliations and their specific research activities. The information was compiled from "A Chesapeake Bay Directory" by A. McErlean et al. which was published as a partial fulfillment of this contract.

For researchers and research activities in other national and international areas the reader is referred to the "International Directory of Marine Scientists," issued by the Food and Agriculture Organization of the United Nations in 1977. Copies of this directory are available at the following locations:

EPA Region III
Chesapeake Bay Program Office
Curtis Building
6th and Walnut Streets
Philadelphia, PA 19106

Chesapeake Research Consortium
1419 Forest Drive
Suite 207
Annapolis, MD 21403

University of Maryland, Center for Environmental and Estuarine Studies
ATTN: Karen Rutledge
P. O. Box 775
Horn Point Rd.
Cambridge, MD 21613

Virginia Institute of Marine Science
ATTN: Thomas Lochen
Gloucester Point, VA 23062



VIII

ANNEX I

## Directory of Researchers

### Eutrophication

| | |
|---|---|
| Alden, R. W.<br>Old Dominion University | Pollution ecology, zooplankton. |
| Allan, J. D.<br>University of Maryland | Zooplankton ecology. |
| Ayars, J.<br>University of Maryland | Non-point source pollution. |
| Beaven, M. L.<br>Chesapeake Biological Laboratory, University of Maryland | Nuclear power plant impacts on primary production - Chesapeake Bay. |
| Bender, M. E.<br>Virginia Institute of Marine Science | Eutrophication, algal ecology - Chesapeake Bay. |
| Benfield, E. F.<br>Virginia Polytechnic Institute and State University | Aquatic ecology, pollution effects. |
| Bishop, J. W.<br>University of Richmond | Systems analyses of primary production. |
| Boesch, D. F.<br>Virginia Institute of Marine Science | Pollution ecology. |
| Boicourt, W. C.<br>Chesapeake Bay Institute, The Johns Hopkins University | Physical oceanography, circulation and mixing - Chesapeake Bay. |
| Boyton, W. R.<br>Chesapeake Biological Laboratory, University of Maryland | Phytoplankton production and nutrient cycling - Chesapeake Bay. |
| Bradford, R. H., Jr.<br>Chesapeake Biological Laboratory, University of Maryland | Pollution ecology - Chesapeake Bay. |

| | |
|---|---|
| Brodie, H.<br>University of Maryland | Agricultural waste disposal. |
| Brusch, L. M.<br>The Johns Hopkins University | Nutrient loading, water quality management. |
| Buikema, A. L., Jr.<br>Virginia Polytechnic Institute and State University | Aquatic ecology, pollution effects. |
| Cairns, J., Jr.<br>Virginia Polytechnic Institute and State University | Water quality studies. |
| Carpenter, J. H.<br>University of Miami | Eutrophication and nutrient cycling. |
| Chamberlin, C.<br>The Johns Hopkins University | Water quality management, wastewater loading. |
| Champ, M.<br>American University | Eutrophication and water pollution - Chesapeake Bay. |
| Chen, H. S.<br>Virginia Institute of Marine Science | Water wave mechanics. |
| Clark, L. J.<br>Environmental Protection Agency, Annapolis Field Office | Nutrient enrichment, nutrient transport and control requirements - Chesapeake Bay. |
| Cockey, R. R.<br>Marine Products Laboratory, University of Maryland | Public health aspects of pollution, marine microbiological processes - Chesapeake Bay. |
| Cohen, J.<br>The Johns Hopkins University | Water quality modeling. |
| Correll, D. L.<br>Chesapeake Bay Center for Environmental Studies, Smithsonian Institution | Eutrophication and non-point source pollution - Chesapeake Bay. |
| Cronin, W. B.<br>Chesapeake Bay Institute, The Johns Hopkins University | Productivity - Chesapeake Bay. |



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| | |
|---|---|
| Day, G. E.<br>Virginia Polytechnic Institute and State University | Land use policy and non-point discharges. |
| D'Elia, C.<br>Chesapeake Biological Laboratory, University of Maryland | Nutrient dynamics and energetics of marine ecosystems, phyto-plankton - Chesapeake Bay. |
| Dickson, K. L.<br>Virginia Polytechnic Institute and State University | Water quality studies of inland tributaries. |
| Drewry, W. A.<br>Old Dominion University | Water and wastewater treatment. |
| Ellison, R.<br>University of Virginia | Marsh and estuarine ecology. |
| Engel, W. T.<br>Charles County Community College | Nutrient research - Chesapeake Bay. |
| Fang, C. S.<br>Virginia Institute of Marine Science | Estuarine and coastal hydro-mechanics. |
| Ferri, K.<br>Chesapeake Bay Institute, The Johns Hopkins University | Analytical chemistry of seawater - Chesapeake Bay. |
| Fisher, J.<br>University of Virginia | Beach processes and estuarine circulation. |
| Fisher, T. R.<br>Horn Point Environmental Laboratories, University of Maryland | Nutrient dynamics - Chesapeake Bay. |
| Flemer, D.<br>Environmental Protection Agency, Washington, D. C. | Primary production - Chesapeake Bay. |
| Giles, R. H.<br>Virginia Polytechnic Institute and State University | Watershed models. |
| Grant, G. C.<br>Virginia Institute of Marine Science | Taxonomy and ecology of marine zooplankton. |

| | |
|---|---|
| Gross, M. G.<br>Chesapeake Bay Institute,<br>The Johns Hopkins University | Sediments, wastes and urban effects in coastal environments - Chesapeake Bay. |
| Gupta, G.<br>University of Maryland | Water sampling and monitoring. |
| Haas, L. W.<br>Virginia Institute of Marine Science | Ecology and phytoplankton dynamics. |
| Harris, R.<br>Virginia Institute of Marine Science | Water quality. |
| Heinbokel, J.<br>Chesapeake Bay Institute,<br>The Johns Hopkins University | Zooplankton - Chesapeake Bay. |
| Heinle, D.<br>Chesapeake Biological Laboratory,<br>University of Maryland | Ecology of zooplankton energy transfer - Chesapeake Bay. |
| Hendricks, A. C.<br>Virginia Polytechnic Institute and State University | Aquatic ecology, pollution effects. |
| Ho, G. C. S.<br>Virginia Institute of Marine Science | Water qualtiy management. |
| Hopkins, T.<br>University of Maryland | Water sampling and monitoring. |
| Huggett, R. J.<br>Virginia Institute of Marine Science | Water quality criteria, heavy metals, pesticides, oil pollution - Chesapeake Bay. |
| Hyer, P. V.<br>Virginia Institute of Marine Science | Geophysical fluid dynamics, estuarine oceanography. |
| Jaworski, N. A.<br>Environmental Protection Agency,<br>Annapolis Field Office | Nutrient management - Chesapeake Bay. |
| Johnson, R. E.<br>Old Dominion University | Generation and distribution of water masses, oceanic circulation. |

| | |
|---|---|
| Jones, P. W.<br>Chesapeake Biological Laboratory,<br>University of Maryland | Productivity, water quality - Chesapeake Bay. |
| Jordan, R. A.<br>Virginia Institute of Marine Science | Eutrophication, algal ecology - Chesapeake Bay. |
| Karlander, E. P.<br>University of Maryland | Physiological ecology of algae. |
| Kemp, M. W.<br>Horn Point Environmental Laboratories,<br>University of Maryland | Systems ecology - Chesapeake Bay. |
| Kuo, A. Y.<br>Virginia Institute of Marine Science | Estuarine hydrodynamics, turbulence. |
| Kuo, C. Y.<br>Old Dominion University | Coastal hydraulics. |
| Lear, D. W., Jr.<br>Environmental Protection Agency,<br>Annapolis Field Office | Nutrient management - Chesapeake Bay. |
| Lomax, K. M.<br>Horn Point Environmental Laboratories,<br>University of Maryland | Wastewater treatment and disposal, diffuse sources of pollution - Chesapeake Bay. |
| MacIntyre, W. G.<br>Virginia Institute of Marine Science | Chemical oceanography, data processing. |
| Marshall, H. G.<br>Old Dominion University | Marine and freshwater plankton ecology and systematics. |
| Martens, D. C.<br>Virginia Polytechnic Institute and State University | Wastes from livestock lagoons. |
| McCarthy, J.<br>Harvard University | Eutrophication - Chesapeake Bay. |

| | |
|---|---|
| McErlean, A. J.<br>Horn Point Environmental Laboratories,<br>University of Maryland | Eutrophication, estuarine pollution ecology - Chesapeake Bay. |
| Mihursky, J. A.<br>Chesapeake Biological Laboratory,<br>University of Maryland | Pollution ecology, estuaine community dynamics - Chesapeake Bay. |
| Mountford, K.<br>Benedict Laboratory,<br>Academy of Natural Sciences of Philadelphia | Plankton dymanics - Chesapeake Bay. |
| Mulford, R. A.<br>Benedict Laboratory,<br>Academy of Natural Sciences of Philadelphia | Ecology of estuarine plankton - Chesapeake Bay. |
| Mullen, R. S.<br>Benedict Laboratory,<br>Academy of Natural Sciences of Philadelphia | Productivity of phytoplankton - Chesapeake Bay. |
| Munday, J. C., Jr.<br>Virginia Institute of Marine Science | Remote sensing of environmental water quality, coastal circulation. |
| Neilson, B. J.<br>Virginia Institute of Marine Science | Eutrophication - Chesapeake Bay. |
| Odum, W.<br>University of Virginia | Marsh and estuarine ecology. |
| Oglesby, D. M.<br>Old Dominion University | Marine chemistry. |
| Osborne, C. G.<br>Chesapeake Biological Laboratory,<br>University of Maryland | Pollution biology - Chesapeake Bay. |
| Pagoria, P. S.<br>Old Dominion University | Water quality modeling. |
| Pheifer, T.<br>Environmental Protection Agency,<br>Annapolis Field Office | Nutrient management - Chesapeake Bay. |



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| | |
|---|---|
| Price, D.<br>Horn Point Environmental Laboratories,<br>University of Maryland | Diffuse sources of pollution - Chesapeake Bay. |
| Pritchard, D.<br>Chesapeake Bay Institute,<br>The Johns Hopkins University | Eutrophication - Chesapeake Bay. |
| Randall, C.<br>Virginia Polytechnic Institute and State University | Water quality analysis. |
| Reneau, R. B., Jr.<br>Virginia Polytechnic Institute and State University | Movement of bacteria and nutrients from septic systems. |
| ReVelle, C.<br>The Johns Hopkins University | Water quality modeling. |
| Schubel, J. R.<br>State University of New York, Stony Brook, New York | Eutrophication - Chesapeake Bay. |
| Seigel, F.<br>George Washington University | Algae blooms. |
| Seliger, H.<br>The Johns Hopkins University | Phytoplankton production. |
| Shanholtz, V. O.<br>Virginia Polytechnic Institute and State University | Watershed modeling. |
| Shelton, D. G.<br>Chesapeake Biological Laboratory,<br>University of Maryland | Pollution ecology - Chesapeake Bay. |
| Simmons, G. M., Jr.<br>Virginia Polytechnic Institute and State University | Aquatic ecology, pollution effects. |
| Sladen, W. J. L.<br>The Johns Hopkins University | Winter waterfowl populations. |
| Smith, R.<br>Western Maryland College | Water quality, nutrient export with regard to land use. |

| | |
|---|---|
| Smolen, M.<br>Virginia Polytechnic Institute and State University | Water quality of freshwater tributaries. |
| Southwick, C.<br>The Johns Hopkins University | Fish and water quality - Chesapeake Bay. |
| Spoon, D. M.<br>Georgetown University | Water quality data - Chesapeake Bay. |
| Stevenson, J. C.<br>Horn Point Environmental Laboratories, University of Maryland | Nutrient cycling, productivity and population dynamics - Chesapeake Bay. |
| Taft, J. L.<br>Chesapeake Bay Institute, The Johns Hopkins University | Phytoplankton physiology, phosphorus distribution - Chesapeake Bay. |
| Taylor, W. R.<br>Chesapeake Bay Institute, The Johns Hopkins University | Eutrophication - Chesapeake Bay. |
| Tyler, M.<br>Chesapeake Bay Institute, The Johns Hopkins University | Phytoplankton - Chesapeake Bay. |
| Ulanowicz, R. E.<br>Chesapeake Biological Laboratory, University of Maryland | Hydrographic modeling applied to impact of electrical generating facilities - Chesapeake Bay. |
| Umari, A.<br>Old Dominion University | Water resources management. |
| Villa, O., Jr.<br>Environmental Protection Agency, Annapolis Field Office | Nutrient enrichment, nutrient transport and nutrient loading - Chesapeake Bay. |
| Wahely, R.<br>Chesapeake Bay Institute, The Johns Hopkins University | Current meter observations - Chesapeake Bay. |
| Wang, D.<br>Chesapeake Bay Institute, The Johns Hopkins University | Mathematical modeling of estuarine and oceanographic processes - Chesapeake Bay. |



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| | |
|---|---|
| Webb, K. L.<br>Virginia Institute of Marine Science | Plant physiology and ecology - Chesapeake Bay. |
| Wetzel, R. L.<br>Virginia Institute of Marine Science | Ecosystem modeling, energetics. |
| Whaley, R. C.<br>Hydrocon,<br>Edgewater, Maryland | Eutrophication and nutrient cycling. |
| White, H. H.<br>Old Dominion University | Plankton ecology and physiology. |
| Wolman, M. G.<br>The Johns Hopkins University | Water quality, urban and land runoff. |
| Woodson, B. R., Jr.<br>Virginia State College | Algal systematics and productivity. |
| Wutoh, J. G.<br>Marine Products Laboratory,<br>University of Maryland | Toxic algae bloom monitoring - Chesapeake Bay. |
| Yongue, W. H., Jr.<br>Virginia Polytechnic Institute and State University | Aquatic ecology, pollution effects. |



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ANNEX II

Data Files

Eutrophication

# ANNEX II

## Data Files

### Part A

### Data Files

### Eutrophication

The data files included in this section are arranged by EDBD accession number. This number should be used in inquiries to EDBD or in specific citations of files. However, for the purposes of this report, these files were assigned unique page numbers.

Files of areas adjacent to the Chesapeake Bay such as North Carolina, Delaware, New Jersey and Pennsylvania have been included when encountered.

ENDEX SYSTEM. ITS PURPOSE IS TO GUIDE USERS WITH REQUIREMENTS FOR HISTORICAL ENVIRONMENTAL DATA TO HOLDERS OF THESE DATA.

THIS OUTPUT WAS SELECTED FROM THE ENTIRE FILE BASED ON CERTAIN CRITERIA SPECIFIED BY THE USER. THESE CRITERIA ARE REPEATED BELOW:

EDBD

THE OUTPUT IS IN TWO PARTS. FIRST IS A LISTING OF ALL THE EDBD'S SELECTED, PRINTED IN ID NUMBER ORDER. AT THE BACK OF EACH OUTPUT MAY BE A CROSS-INDEX, LISTING SUCH THINGS AS WHICH FILE DESCRIPTIONS DESCRIBE DATA COLLECTED ON EACH PLATFORM TYPE, OR WHICH FILE DESCRIPTIONS HAVE DATA IN EACH GRID LOCATOR. THIS SECTION WILL VARY DEPENDING ON THE REQUIREMENTS OF THE USER. THE ID NUMBER IS IN THE UPPER LEFT CORNER OF EACH FILE DESCRIPTION. THE FOLLOWING IS AN EXPLANATION OF FIELDS ON EACH PAGE.

FILE NAME -- TOP CENTER OF PAGE. IDENTIFIED BY DATA HOLDER. ALSO, TIME RANGE OF DATA COLLECTION.

PROJECTS -- LIST OF PROJECTS UNDER WHICH DATA CONTAINED IN FILES MAY HAVE BEEN COLLECTED.

GENERAL GEOGRAPHIC AREA -- BEGINS WITH CONTINENT OR OCEAN IN WHICH DATA WERE COLLECTED AND DESCRIBES SMALLER AND SMALLER AREAS TO GIVE USER A GENERAL AREA OF DATA COLLECTION.

ABSTRACT -- CONTAINS GENERAL INFORMATION ABOUT WHY THE DATA WERE COLLECTED AND WHERE, METHODS OF ANALYSIS AND PERTINENT CONCLUSIONS.

DATA AVAILABILITY -- CONTAINS RESTRICTIONS ON DATA USE. IF BLANK IT MEANS THERE ARE NO KNOWN RESTRICTIONS.

PLATFORM TYPES -- LIST OF TYPES OF PLATFORMS (IF ANY) USED TO COLLECT DATA.

ARCHIVE MEDIA -- MEDIA ON WHICH DATA ARE STORED AND A ROUGH ESTIMATE OF THE SIZE OF THE FILE.

FUNDING -- ORGANIZATION FUNDING THE DATA COLLECTION (IF KNOWN).

INVENTORY -- WHEN DETAILED INFORMATION ON STATION LOCATIONS, COUNTS OF OBSERVATIONS/SAMPLES, ETC. ARE AVAILABLE, IT WILL BE DENOTED HERE.

PUBLICATIONS -- PUBLICATIONS RESULTING FROM THIS DATA SET (LIST IS SOMETIMES CONDENSED).

CONTACT -- NAME, ADDRESS AND PHONE NUMBER OF PERSON TO CONTACT TO OBTAIN FURTHER INFORMATION OR ACTUAL COPIES OF DATA.

GRID LOCATOR -- A SERIES OF NUMBERS USED TO MAKE GEOGRAPHIC RETRIEVAL POSSIBLE ON A COMPUTER. LATITUDE AND LONGITUDE ARE COMBINED INTO A SINGLE NUMBER. THE WORLD METEOROLOGICAL ORGANIZATION (WMO) CODE IS USED TO IDENTIFY AREAS WHERE DATA WERE COLLECTED. THIS MAY BE A 4,6,8, OR 10 DIGIT NUMBER DEPENDING ON WHETHER THE DATA HOLDER CHOSE TO IDENTIFY AREAS DOWN TO 10-DEGREE SQUARES OF LATITUDE AND LONGITUDE OR TO 1-DEGREE, 10-MINUTE, OR 1-MINUTE SQUARES. FOR A 4-DIGIT GRID LOCATOR THE NUMBERS ARE AS FOLLOWS:

DIGIT 1 -- QUADRANT OF WORLD: 1=NE, 3=SE, 5=SW, 7=NW.
DIGIT 2 -- TENS DIGIT OF LATITUDE.
DIGITS 3/4 -- HUNDREDS AND TENS DIGITS OF LONGITUDE.

THUS 7408 WOULD BE THE 10-DEGREE SQUARE OF WHICH THE POINT 40N AND 080W IS THE LOWER RIGHT HAND CORNER.

FOR A SIX DIGIT NUBMER, DIGITS 5 AND 6 REPRESENT THE UNITS DIGITS OF LATITUDE AND LONGITUDE. THUS 740825 WOULD IDENTIFY THE 1-DEGREE SQUARE OF 42N AND 085W.

WITH AN 8-DIGIT NUMBER, 74082534 REPRESENTS THE SQUARE AT 42-DEGREES, 30-MINUTES NORTH AND 085-DEGREES, 40-MINUTES WEST, OR 10-MINUTE SQUARE.

THE SMALLEST AREA IDENTIFIED IN THE SYSTEM IS A 1-MINUTE SQUARE,
OR A 10-DIGIT GRID LOCATOR (E.G., 7408253415 IS 42-DEGRESS
31-MINUTES NORTH AND 085-DEGRESS, 45-MINUTES WEST).

PARAMETER IDENTIFICATION SECTION -- THIS PORTION OF THE FILE DESCRIPTION CONTAINS A LIST OF PARAMETERS MEASURED. THE SPHERE IT WAS MEASURED IN, THE METHODS USED AND THE UNITS OF MEASUREMENT. IN ADDITION, SUCH INFORMATION AS THE NUMBER OF MEASUREMENTS OF EACH PARAMETER AND THE FREQUENCY (IF REGULARLY SPACED) ARE REPORTED. A SPECIALIZED ENDEX VOCABULARY IS AVAILABLE DEFINING THE PARAMETER, SPHERE, AND METHOD TERMS USED.

QUESTIONS CONCERNING THIS OUTPUT SHOULD BE RELAYED TO THE NODC OCEANOGRAPHIC SERVICES BRANCH (202) 634-7500 OR TO THE DATA INDEX BRANCH (202) 634-7298.

000082 NUTRIENT STUDIES ON THE RHODE RIVER ECOSYSTEM AND AUTOTROPHIC-HETEROTROPHIC PHOSPHORUS METABOLISM IN MICROBIAL COMMUNITIES 

DATA COLLECTED: AUGUST 1971 TO PRESENT

RECEIVED: JANUARY 01, 1976

PROJECTS:
RHODE RIVER ESTUARY STUDY

GENERAL GEOGRAPHIC AREA:
. .S, COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:
EXTENSIVE BASELINE NUTRIENT STUDIES ON THE RHODE RIVER ECOSYSTEM INCLUDING HYDROGRAPHIC DATA. PHOSPHOROUS METABOLISM OF PLANKTON AND PERIPHYTON. PRIMARY PRODUCTIVITY OF PERIPHYTON, UPLAND PLANTS, AND MARSH PLANTS. NEW TECHNIQUES FOR PHOSPHORUS METABOLISM STUDY IN PLANKTON AND PERIPHYTON.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
28 PARAMETERS, 2000-5000 ENTRIES PER PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID L CORRELL 301 798 4424
SMITHSONIAN INSTITUTION, CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, BOX 622
EDGEWATER MARYLAND USA 21037

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 18 | STATIONS | VARIABLE | | |
| TIME | EARTH | SAMPLING TIME | YMDHML | 18 | STATIONS | VARIABLE | | EACH STATION SAMPLED FROM 10 TO 100 TIMES |
| HETEROTROPHIC RATE | WATER | PHOSPHORUS-32 | MICROGRAMS P PER MIN PER LITER PER COMPOUND | 6 | OBS | | ONE METER | NEW TECHNIQUE CONTINUOUS FLOW PULSE LABELING, LIQUID COLUMN CHROMATOGRAPHY |
| HETEROTROPHIC | WATER | PHOSPHORUS-32 | MICROGRAMS P | 48 | OBS | | BOTTOM | NEW TECHNIQUE, |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| RATE | | | PER MIN PER LITER PER COMPOUND | | | | | UPTAKE ON ARTIFICIAL SUBSTRATES. LIQUID COLUMN CHROMATOGRAPHY, SEVERAL RUNS OVER A YEAR'S TIME |
| HETEROTROPHIC RATE | WATER | PHOSPHORUS-32 | MICROGRAMS P PER HR PER M SQ | 48 | OBS | 1 OBS AT 2 STATIONS PER MONTH | BOTTOM | ARTIFICIAL SUBSTRATES |
| HETEROTROPHIC RATE | WATER | PHOSPHORUS-32 | MICROGRAMS P PER HR PER GM ASH FREE DRY WT | 48 | OBS | 1 OBS AT 2 STATIONS PER MONTH | BOTTOM | ARTIFICIAL SUBSTRATES |
| HETEROTROPHIC RATE | WATER | PHOSPHORUS-32 | MICROGRAMS P PER MIN PER LITER | 24 | OBS | 1 OBS PER MONTH | ONE METER | KINETICS OF P CYCLING |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MG C PER HR PER MSQ AND MG C PER HR PER GM ASH FREE DRY WT | 48 | OBS | 1 OBS AT 2 STATIONS PER MONTH | BOTTOM | PERIPHYTON STUDIED IN FIELD ON ARTIFICIAL SUBSTRATES |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MG C PER HR PER GM DRY WT | 48 | OBS | 1 OBS AT 2 STATIONS PER MONTH | SHALLOW | HIGHER AQUATIC PLANTS, 6 SPECIES STUDIED |
| HETEROTROPHIC RATE | LAND | PHOSPHORUS-32 | MICROGRAM P PER DAY PER GM DRY WT | 2000 | OBS | | SHALLOW | P FLUX BY KINETICS IN UPLANDS AND TIDAL MARSHES, SAMPLING AT 4 STATIONS OVER SEVERAL YEARS |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS P PER LITER | 4000 | OBS | WEEKLY | SURFACE AND BOTTOM | DISSOLVED FRACTION, 10 TO 15 STATIONS PER INTERVAL |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS P PER LITER | 4000 | OBS | WEEKLY | SURFACE AND BOTTOM | TOTAL ORTHOPHOSPHATE, 10 TO 15 STATIONS PER INTERVAL |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAMS P PER LITER | 4000 | OBS | WEEKLY | SURFACE AND BOTTOM | 10 TO 15 STATIONS PER INTERVAL |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAMS P PER LITER | 4000 | OBS | WEEKLY | SURFACE AND BOTTOM | DISSOLVED FRACTION, 10 TO 15 STATIONS PER INTERVAL |
| NITRATE | WATER | COLORIMETRY | MICROGRAMS N PER LITER | 3000 | OBS | BIWEEKLY | SURFACE AND BOTTOM | 10 TO 15 STATIONS PER INTERVAL |

007

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| AMMONIA | WATER | COLORIMETRY | MICROGRAMS N PER LITER | 2000 | OBS | BIWEEKLY | SURFACE AND BOTTOM | 10 TO 15 STATIONS PER INTERVAL |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | JACKSON CANDLE UNITS | 5000 | OBS | WEEKLY | SURFACE AND BOTTOM | 15 STATIONS |
| PH | WATER | COLORIMETRY | PH | 2500 | OBS | WEEKLY | SURFACE AND BOTTOM | 15 STATIONS |
| PH | WATER | SPECIFIC ION ELECTRODE | PH | 2500 | OBS | WEEKLY | SURFACE AND BOTTOM | 15 STATIONS |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 2000 | OBS | WEEKLY | SURFACE AND BOTTOM | WINKLER METHOD, 15 STATIONS |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 2000 | OBS | WEEKLY | SURFACE AND BOTTOM | 15 STATIONS |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 5000 | OBS | WEEKLY | SURFACE AND BOTTOM | 15 STATIONS |
| HARDNESS | WATER | EDTA TITRATION | PARTS PER MILLION CA | 2000 | OBS | WEEKLY | | 1 YR DATA ON 6 STATIONS IN FRESH WATER CREEKS |
| REACTIVE SILICATE | WATER | COLORIMETRY | MILLIGRAMS SI PER LITER | 2000 | OBS | BIWEEKLY | SURFACE | 14 STATIONS, 1 YR OF DATA |
| IRON | WATER | COLORIMETRY | MICROGRAMS FE PER LITER | 1000 | OBS | BIWEEKLY | SURFACE | 14 STATIONS, 1 YR OF DATA, TOTAL IRON |
| IRON | WATER | COLORIMETRY | MICROGRAMS FE PER LITER | 1000 | OBS | BIWEEKLY | SURFACE | 14 STATIONS, 1 YR OF DATA, SOLUBLE IRON .KJELDAHL NITROGEN S-WATER M-COLORIMETRY U-MICROGRAMS N PER LITER T-OBS Q-300 F-WEEKLY H-SURFACE AND BOTTOM R-15 STATIONS, ORGANIC NITROGEN |
| SALINITY | WATER | TITRATION | MOLARITY NACL | 2500 | OBS | WEEKLY | SURFACE AND BOTTOM | 15 STATIONS |
| SALINITY | WATER | CONDUCTIVITY | MOLARITY NACL | 2500 | OBS | WEEKLY | SURFACE AND BOTTOM | 15 STATIONS |
| CARBONATE ALKALINITY | WATER | TITRATION | PARTS PER MILLION CARBONATE | 5000 | OBS | WEEKLY | SURFACE | 15 STATIONS |

RECEIVED: OCTOBER 05, 1973

PROJECTS:
CHESAPEAKE BAY INSTITUTE DATA BANK

GENERAL GEOGRAPHIC AREA:
U.S., NORTH ATLANTIC, COASTAL, CHESAPEAKE BAY

ABSTRACT:
THE CHESAPEAKE BAY DATA BANK SYSTEM AT CBI INCLUDES WATER CHEMISTRY AND NUTRIENT DATA COLLECTED BY CBI PERSONNEL SINCE 1949. TEMPERATURE, SALINITY, DISSOLVED OXYGEN, CHLOROPHYLL, PH, ORTHOPHOSPHATE, TOTAL PHOSPHATE, AND OTHER LESS COMMONLY ASSAYED PARAMETERS ARE INCLUDED. DATA COVERS THE ENTIRE CHESAPEAKE BAY AND ALL TRIBUTARIES. GOAL IS TO MAKE DATA AVAILABLE FOR SECONDARY USERS. ONGOING ACCESSION PROCEDURE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
7384 RETRIEVABLE STATIONS IN CHESAPEAKE BAY PROPER, 12937 RETRIEVABLE STATIONS IN TRIBUTARIES. MULTI DEPTHS PER STATION, SEVERAL PARAMETERS PER DEPTH.

FUNDING:

INVENTORY:

PUBLICATIONS:
2 DATA BANK REPORTS: 1) DATA BANK INVENTORY, VOL 1, CHESAPEAKE BAY TRIBUTARIES, EDITION 1,1949 THRU 1969, REFERENCE 72-4, DATA BANK REPORT 1; 2) DATA BANK INVERTORY, VOL 2, EDITION 1, 1949 THRU 1970, REFERENCE 73-5, DATA BANK REPORT 2

CONTACT:
CAROL FEISTER 207 781 2330
MAINE AUDUBON SOCIETY
GILSLAND FARM
FALMOUTH MAINE USA 04105

GRID LOCATOR (LAT):
730765 730766 730775 730776 730777 730785 730786 730787 730795 730796 730797

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 20000 STATIONS | | | DATA FILE INCLUDES 7384 RETRIEVABLE OBSERVATIONS IN CHESAPEAKE BAY AND 12937 IN BAY TRIBUTARIES, EACH OBSERVATION MAY INCLUDE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | SEVERAL DEPTH SAMPLINGS AND PARAMETERS. DATA ON CONTINENTAL SHELF NOT INCLUDED IN SYSTEM AS OF JULY 1973 |
| TIME | EARTH | STATION TIME | YMDHML | 20000 STATIONS | | | DATA FILE INCLUDES 7384 RETRIEVABLE OBSERVATIONS IN CHESAPEAKE BAY AND 12937 IN BAY TRIBUTARIES. EACH OBSERVATIO N MAY INCLUDE SEVERAL DEPTH SAMPLINGS AND PARAMETERS. DATA ON CONTINENTAL SHELF NOT INCLUDED IN SYSTEM AS OF JULY 1973 |
| TEMPERATURE | WATER | VARIOUS | DEG C | 20000 OBS | | | FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949. MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES. THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY. ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE. OTHER PARAMETERS WITH FEWER OBS |

010

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | ARE ACCESSIBLE IN SYSTEM |
| SALINITY | WATER | VARIOUS | PARTS PER THOUSAND | 20000 OBS | | | FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949. MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY. ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE. OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM |
| TOTAL CHLOROPHYL L | WATER | VARIOUS | MICROGRAMS PER LITER | 20000 OBS | | | FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949. MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY. ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE. OTHER PARAMETERS |

ATTENTION

AS NOTED IN THE NTIS ANNOUNCEMENT, PORTIONS OF THIS REPORT ARE NOT LEGIBLE. HOWEVER, IT IS THE BEST REPRODUCTION AVAILABLE FROM THE COPY SENT TO NTIS.

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 20000 OBS | | | FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 20000 OBS | | | FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER |

012

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 20000 OBS | | | FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949. MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES. THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY. ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE. OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 20000 OBS | | | FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949. MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES. THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY. ONLY PRIMARY WATER PARAMETERS LISTED IN THIS |

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PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | FILE, OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM |

DATA COLLECTED: APRIL 1955 TO PRESENT

RECEIVED: OCTOBER 05, 1973

PROJECTS:
CHESAPEAKE BAY INSTITUTE DATA BANK

GENERAL GEOGRAPHIC AREA:
U.S., NORTH ATLANTIC, CHESAPEAKE BAY, COASTAL, BACK RIVER, MARYLAND

ABSTRACT:
HYDRO DATA AND NUTRIENTS FOR BACK RIVER, MARYLAND ON CBI DATA BANK FROM APRIL 1955 THROUGH DECEMBER 1965, SEVEN GRIDS WITH DATA
(SUMMARY FROM CBI DATA BANK REPORT )

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
8 PARAMETERS, UP TO 74 OBS PER PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
CAROL FEISTER 207 781 2330
MAINE AUDUBON SOCIETY
GILSLAND FARM
FALMOUTH MAINE USA 04105

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 74 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YM | 74 | STATIONS | | | |
| DEPTH | WATER | WIRE LENGTH | FEET | 74 | OBS | | BOTTOM | INFORMATION FROM CBI DATA BANK REPORT 1 |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 74 | OBS | | SURFACE TO BOTTOM | INFORMATION FROM CBI DATA BANK REPORT 1 |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 74 | OBS | | SURFACE TO BOTTOM | INFORMATION FROM CBI DATA BANK REPORT 1 |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 59 | OBS | | SURFACE TO BOTTOM | INFORMATION FROM CBI DATA |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | BANK REPORT 1 |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 59 | OBS | | SURFACE TO BOTTOM | INFORMATION FROM CBI DATA BANK REPORT 1 |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 43 | OBS | | SURFACE TO BOTTOM | INFORMATION FROM CBI DATA BANK REPORT 1 |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 43 | OBS | | SURFACE TO BOTTOM | INFORMATION FROM CBI DATA BANK REPORT 1 |
| TOTAL CHLOROPHYL L | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 43 | OBS | | SURFACE TO BOTTOM | INFORMATION FROM CBI DATA BANK REPORT 1 |

DATA COLLECTED: JULY 1973 TO PRESENT
RECEIVED: NOVEMBER 07, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, CHESTER RIVER MARYLAND

ABSTRACT:
MONTHLY WATER SAMPLES ARE OBTAINED FROM CHESTER RIVER BY CITIZENS OF CHESTERTOWN, MARYLAND REGION AND ARE MEASURED FOR WATER QUALITY BY USE OF A TEST KIT.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE FOLDER OF DATA SHEETS.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
NANCY G DIMSDALE 301-268-8816
CHESAPEAKE BAY FOUNDATION
PRINCE GEORGE AND EAST STREETS
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 6. | STATIONS | | SHORELINE | |
| TIME | EARTH | STATION TIME | YMD | 17 | OBS | MONTHLY | | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG F | 17 | OBS | MONTHLY | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG F | 17 | OBS | MONTHLY | | |
| PH | WATER | COLORIMETRY | PH UNITS | 17 | OBS | MONTHLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG O2 PER LITER | 17 | OBS | MONTHLY | | |
| SALINITY | WATER | HYDROMETER | PARTS PER THOUSAND | 17 | OBS | MONTHLY | | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | PARTS PER MILLION | 17 | OBS | MONTHLY | | |
| NITRATE | WATER | COLORIMETRY | PARTS PER MILLION | 17 | OBS | MONTHLY | | |

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DATA COLLECTED: APRIL 1972 TO NOVEMBER 1972

RECEIVED: NOVEMBER 07, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, SPA CREEK, ANNAPOLIS, MARYLAND

ABSTRACT:
WATER QUALITY PARAMETERS WERE MEASURED IN SPA CREEK DURING 1972. AN ATTEMPT WAS MADE TO IDENTIFY THE TYPES AND, SOURCES OF POLLUTANTS AND TO QUANTIFY THE CONTRIBUTION FROM EACH SOURCE.
(DATA SUMMARIZED IN FINAL REPORT JULY 1973 )

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE FILE OF DATA SHEETS: ALSO FINAL REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
NANCY G DIMSDALE 301-268-8816
CHESAPEAKE BAY FOUNDATION
PRINCE GEORGE AND EAST STREETS
ANNAPOLIS MARYLAND USA 21404

0 18

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 10 | STATIONS | | SURFACE | FIVE STATIONS WERE IN CREEK, FIVE STATIONS AT STORM WATER DRAINAGE PIPES |
| TIME | EARTH | STATION TIME | YMD | 410 | OBS | TWICE A WEEK | | |
| COUNT OF MICROBIOTA | WATER | VISUAL | CULTURE GROWTH (MPN) | 610 | OBS | TWICE A WEEK | SURFACE | TOTAL COLIFORM, FECAL COLIFORM |
| SALINITY | WATER | TITRATION | PARTS PER THOUSAND | 410 | OBS | TWICE A WEEK | SURFACE | |
| PH | WATER | COLORIMETRY | PH UNITS | 410 | OBS | TWICE A WEEK | SURFACE | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 410 | OBS | TWICE A WEEK | SURFACE | |
| NITRATE | WATER | COLORIMETRY | PARTS PER | 230 | OBS | TWICE A WEEK | SURFACE | HACH CHEMICAL |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | MILLION | | | | | COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT |
| NITRITE | WATER | COLORIMETRY | PARTS PER MILLION | 230 | OBS | TWICE A WEEK | SURFACE | HACH CHEMICAL COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | PARTS PER MILLION | 230 | OBS | TWICE A WEEK | SURFACE | HACH CHEMICAL COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT |
| UNREACTIVE PHOSPHATE | WATER | COLORIMETRY | PARTS PER MILLION | 230 | OBS | TWICE A WEEK | SURFACE | HACH CHEMICAL COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT |
| PRECIPITATION AMOUNT | AIR | DIRECT | INCH | 51 | OBS | TWICE A WEEK | | |
| RECREATION | WATER | BOATING | NUMBER | 51 | OBS | TWICE A WEEK | | DIVIDED INTO SIZE CLASSES AND AREAS ALONG CREEK |

BIOLOGICAL AND CHEMICAL STUDY OF VIRGINIA'S ESTUARIES
DATA COLLECTED: JULY 1967 TO JUNE 1970



RECEIVED: NOVEMBER 14, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
EXTENSIVE HYDROGRAPHIC CHARACTERIZATION OF VIRGINIA ESTUARIES, NUTRIENT LEVELS, MINOR BIOLOGICAL CHARACTER DESCRIPTION. INTEREST IN LEVELS AND TRANSITION OF FACTORS IN VARIOUS SALINITIES WITHIN AN ESTUARY. COMPARISON OF WATER AND SEDIMENT PHASE IN TRANSPORT AND SINKS FOR NUTRIENTS.
(PROJECT NO. B 003 VA TO M L BREHMER )

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS; REPORTS
1 3 DRAWER FILE CABINET, 60 PAGE SUMMARY REPORT

FUNDING:
OFFICE OF WATER RESOURCES RESEARCH

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766 730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 120 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHML | 650 | STATIONS | | | |
| DEPTH | WATER | WIRE LENGTH | METERS | 650 | OBS | MONTHLY | DISCRETE DEPTHS | DEPTHS FOR SAMPLING AND TOTAL DEPTH |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 650 | OBS | MONTHLY | | 20 CENTIMETER DISC |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 3000 | OBS | MONTHLY | 2 METER INTERVALS SURFACE TO BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER | 3000 | OBS | MONTHLY | 2 METER | BECKMAN RS 7 B |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | THOUSAND | | | | INTERVALS SURFACE TO BOTTOM | INDUCTION SALINOMETER |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION CALCIUM CARBONATE | 3000 | OBS | MONTHLY | 2 METER INTERVALS SURFACE TO BOTTOM | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 3000 | OBS | MONTHLY | 2 METER INTERVALS SURFACE TO BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 1300 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER. | AZIDE MODIFICATI ON OF WINKLER METHOD |
| ORGANIC NITROGEN | DISSOLVED | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | |
| ORGANIC NITROGEN | SUSPENDED | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | |
| AMMONIA | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | |
| REACTIVE PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | SOLUBLE, PARTICULATE, AND TOTAL VALUES REPORTED |
| UNREACTIVE PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | SOLUBLE, PARTICULATE, AND TOTAL VALUES REPORTED |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM PER LITER | 288 | OBS | MONTHLY | 1 METER AND BOTTOM MINUS 1 METER | SOLUBLE, PARTICULATE, AND TOTAL VALUES REPORTED |
| AMMONIA | SEDIMENT | SPECTROPHOTOMETRY | MICROGRAM N PER GRAM | 72 | OBS | 1 TIME | BOTTOM | 3 SAMPLES PER 5 MILE INTERVAL, TOP 1 CENTIMETE R |
| ORGANIC NITROGEN | SEDIMENT | SPECTROPHOTOMETRY | MICROGRAM N PER GRAM | 72 | OBS | 1 TIME | BOTTOM | |
| NITRITE | SEDIMENT | SPECTROPHOTOMETRY | MICROGRAM N PER GRAM | 72 | OBS | 1 TIME | BOTTOM | |
| NITRATE | SEDIMENT | SPECTROPHOTOMETRY | MICROGRAM N PER | 72 | OBS | 1 TIME | BOTTOM | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | GRAM | | | | | |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | MICROGRAM P PER GRAM | 72 | OBS | 1 TIME | BOTTOM | |
| ORGANIC CARBON | SEDIMENT | ASH WEIGHT | MICROGRAM C PER GRAM | 24 | OBS | 1 TIME | BOTTOM | 600 DEGREES C IGNITION |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MICROGRAMS CHL A PER LITER | 120 | OBS | QUARTERLY | 1 METER DEPTH | ACETONE EXTRACTION |
| COMMUNITY STRUCTURE ANALYSIS | WATER | CALCULATED | RANK ABUNDANCE COMMUNITY TYPE BY LIST OF DOMINANT ALGAE | 120 | OBS | QUARTERLY | 1 METER DEPTH | RANK ABUNDANCE OF DIATOMS. CRYPTOMONAS DINOFLAGELLATES IN 120 ML LUGOL PRESERVED SAMPLE |
| COUNT OF PHYTOPLANKTON | WATER | MICROSCOPE | NUMBER PER GENUS PER SAMPLE, NUMBER INDIVIDUALS IN SAMPLE | 120 | OBS | QUARTERLY | 1 METER DEPTH | |
| TAXONOMIC LIST OF PHYTOPLANKTO N | WATER | KEY | GENERA LIST BY STATION AND SEASONAL | 120 | OBS | QUARTERLY | 1 METER DEPTH | |

DATA COLLECTED: MAY 1972 TO JUNE 1972 RECEIVED: NOVEMBER 14, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
167 SITES WERE INVESTIGATED FOR WATER QUALITY AT 8 UPPER CHESAPEAKE BAY SITES, 64 ESTUARIES AND 95 ESTUARINE TRIBUTARIES IN BALTIMORE, HARFORD, KENT, CECIL COUNTIES, MARYLAND DURING MAY AND JUNE 1972.

DATA AVAILABILITY:
ALSO AS SUMMARY REPORT

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS; MAGNETIC DISC
DATA IS MACHINE STORED ON SEVERAL COMPUTER TAPES AND RETRIEVABLE AS DATA SHEET PRINTOUT OR SUMMARY REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 167 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 167 | OBS | | | 8 CHESAPEAKE BAY, 64 ESTUARIES, 95 ESTUARINE TRIBUTARY SITES |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 167 | OBS | | | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 167 | OBS | | | |
| TOTAL ALKALINITY | WATER | TITRATION | MG PER LITER | 167 | OBS | | | |
| ELECTRICAL CONDUCTIVITY | WATER | LAB CONDUCTIVITY CELL | UMHOS/CM | 167 | OBS | | | |

023

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 167 | OBS | | | |
| LIGHT ATTENUATION | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 167 | OBS | | | |
| TOTAL SOLIDS | WATER | DRY WEIGHT | PARTS PER MILLION | 167 | OBS | | | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | MG PER LITER | 167 | OBS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG F | 167 | OBS | | | |

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DATA COLLECTED: DECEMBER 1970 TO DECEMBER 1970
RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA, VIRGINIA BEACH, LYNNHAVEN

ABSTRACT:
MISSION W37, FLT. 1, DEC. 7, 1970, WITH WALLOPS STATION CHARTERED HELICOPTER EQUIPPED WITH 4 T-11 AERIAL CAMERAS IN COOPERATION WITH VA. BEACH HEALTH DEPT. OBJECTIVE - TO UTILIZE MULTI-CHANNEL PHOTOGRAPHY TO INVESTIGATE EFFECTS OF SEWAGE DISPOSAL IN ESTUARINE SYSTEMS. FLIGHT IN CLEAR WEATHER, SCATTERED CLOUDS, AIR TEMP. 8 DEG. C AT 4000 FT, MSL WITH WIND OF 25 KNOTS FROM 330 DEG.
(MISSION NO W37, FLT 1 )

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
152 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 1 | STATIONS | | | 2 FLIGHT LINES |
| TIME | EARTH | SAMPLING TIME | YMDHML | 2 | STATIONS | | | |
| PHOTOGRAPH | EARTH | COLOR CAMERA FROM AIRCRAFT | PHOTOGRAPHS | 152 | OBS | | 4000 FT | 6 INCH FOCAL LENGTH |

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STREAM IMPROVEMENT PROGRAM FOR ANADROMOUS FISH MANAGEMENT, AFC-3 ANADROMOUS
FISH SURVEY 1969 (EPA)
DATA COLLECTED: MARCH 1969 TO MAY 1969

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, PATUXENT DRAINAGE

ABSTRACT:
80 STATIONS WERE INVESTIGATED IN 48 STREAMS WITHIN THE PATUXENT RIVER DRAINAGE TO DETERMINE USE BY FISH SPECIES DIVERSITY AND RELATIVE ABUNDANCE, AND WATER QUALITY.
(FISH OBSERVATIONS RECORDED DURING EPA WATER QUALITY SURVEY DATA AVAILABLE IN SUMMARY REPORT )

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SEVERAL SMALL FILES OF DATA SHEETS. AVAILABLE ALSO IN SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 80 | STATIONS | | | 48 STREAMS IN PATUXENT DRAINAGE |
| TIME | EARTH | STATION TIME | YMD | 200 | STATIONS | MONTHLY | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | SPECIES NAME | 9 | OBS | | | SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL OBSERVATIONS |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | SPECIES NAME | 49 | OBS | | | SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | OBSERVATIONS |
| TEMPERATURE | WATER | THERMISTOR | DEG F | 200 | OBS | | | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 200 | OBS | | | |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL | UMHOS/CM | 200 | OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 200 | OBS | | | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 200 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 200 | OBS | | | |

000216 STREAM IMPROVEMENT PROGRAM FOR ANADROMOUS FISH MANAGEMENT AFC-3. ANADROMOUS FISH SURVEY 1969 

DATA COLLECTED: MARCH 1969 TO MAY 1969

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND DRAINAGES

ABSTRACT:
456 STREAMS IN FORTY-THREE DRAINAGE SYSTEMS IN EIGHTEEN TIDEWATER, MARYLAND. COUNTIES WERE INVESTIGATED FOR WATER QUALITY AND SPAWNING USE BY ANADROMOUS FISH SPECIES.
(DATA AVAILABLE IN SUMMARY REPORT; STATE-WIDE DRAINAGES ACCESSIBLE TO TIDEWATER WERE STUDIED )

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SEVERAL NOTEBOOKS OF DATA SHEETS AND A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730786 730785 730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 456 | STATIONS | | | 43 DRAINAGE SYSTEMS IN 18 TIDEWATER MARYLAND COUNTIES |
| TIME | EARTH | STATION TIME | YMD | 1941 | OBS | | | 952 INVESTIGATIONS IN THE PATUXENT RIVER SYSTEM |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER OF SPECIES | 9 | OBS | | | SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL |

FISH SURVEY 1969

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | NUMBER OF SPECIES | 49 | OBS | | | OBSERVATIONS SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL OBSERVATIONS |
| TEMPERATURE | WATER | THERMISTOR | DEG F | 1941 | OBS | | | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 1941 | OBS | | | |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL | UMHOS/CM | 1941 | OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 1941 | OBS | | | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 1941 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 1941 | OBS | | | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PARTS PER MILLION | 1941 | OBS | | | |

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STREAM IMPROVEMENT PROGRAM FOR ANADROMOUS FISH MANAGEMENT AFC-3, ANADROMOUS FISH SURVEY 1970

DATA COLLECTED: MARCH 1970 TO JUNE 1970

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
180 STREAMS IN THIRTY MARYLAND RIVER SYSTEMS WERE INVESTIGATED FOR WATER QUALITY AND SPAWNING USE BY ANADROMOUS FISH SPECIES. (STATE-WIDE DRAINAGES ACCESSIBLE TO TIDEWATER WERE STUDIED; DATA AVAILABLE IN SUMMARY REPORT )

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SEVERAL NOTEBOOKS OF DATA SHEETS AND A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730795 730786 730785

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 180 STATIONS | | | 30 RIVER SYSTEMS DIVIDED INTO 3 REGIONS |
| TIME | EARTH | STATION TIME | YMD | 1860 OBS | | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER OF SPECIES | 9 OBS | | | WIRE FISH TRAPS USED TO CAPTURE FISH |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | NUMBER OF SPECIES | 49 OBS | | | WIRE FISH TRAPS USED TO CAPTURE FISH |
| TEMPERATURE | WATER | THERMISTOR | DEG F | 1860 OBS | | | |
| PH | WATER | SPECIFIC ION | PH UNITS | 1860 OBS | | | |

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PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| ELECTRICAL CONDUCTIVITY | WATER | ELECTRODE IN SITU CONDUCTIVITY CELL | UMHOS/CM | 1860 | OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 1860 | OBS | | | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 1860 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 1860 | OBS | | | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PARTS PER MILLION | 1860 | OBS | | | |

WATER QUALITY

DATA COLLECTED: AUGUST 1968 TO OCTOBER 1968

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, CHESTER RIVER DRAINAGE

ABSTRACT:
WATER QUALITY DATA WAS OBTAINED FOR 141 SITES WITHIN THE CHESTER RIVER DRAINAGE, IN MARYLAND, CHOSEN AS A PILOT STUDY AREA. (PILOT STUDY AREA FOR AFC-3; DATA AVAILABLE IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE NOTEBOOK OF DATA SHEETS AND A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730795 730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 141 | STATIONS | | | 62 STREAMS COMPRISING 18 DRAINAGES PRIMARY TO CHESTER RIVER |
| TIME | EARTH | STATION TIME | YMD | 141 | OBS | | | AVERAGE STREAM WIDTHS AND MIDDLE DEPTHS TAKEN AT SAMPLING SITES |
| TEMPERATURE | WATER | RESISTANCE THERMOMETER | DEG F | 141 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 141 | OBS | | | |

WATER QUALITY

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PH | WATER | COLORIMETRY | PH UNITS | 141 | OBS | | | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 141 | OBS | | | |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 141 | OBS | | | |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL | UHOS/CM | 141 | OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 141 | OBS | | | |

000224 SURVEY OF ANADROMOUS FISH SPAWNING AREAS AFC-8 WATER QUALITY SURVEILLANCE B 

POTOMAC RIVER

DATA COLLECTED: JANUARY 19.1 TO JUNE 1971

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE, POTOMAC RIVER

ABSTRACT:
SURFACE AND SUBSURFACE WATER SAMPLES WERE TAKEN AT 27 STATIONS ALONG THE POTOMAC RIVER FROM JANUARY TO JUNE 1971, AND ANALYSED FOR VARIOUS WATER QUALITY PARAMETERS.
(ALSO IN A SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS; MAGNETIC DISC
SEVERAL FILES OF DATA SHEETS ARE CURRENTLY BEING TRANSFERRED TO COMPUTER TAPES. ALSO AVAILABLE AS A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730787 730786 730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 27 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 189 | OBS | | | SAMPLING FREQUENCY VARIES WITH EACH STATION; SURFACE AND SUBSURFACE |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 189 | OBS | | | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MG/L | 189 | OBS | | | |
| SALINITY | WATER | TITRATION | PARTS PER THOUSAND | 189 | OBS | | | |
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | INCHES | 189 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MG/L | 189 | OBS | | | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MG/L | 189 | OBS | | | |
| | | | | | | | | .KJELDAHL NITROGEN S-WATER M-TITRATION U-MG/L T-OBS Q-189 F- H- R- |
| NITRATE PLUS NITRITE | WATER | SPECTROPHOTOMETRY | MG/L | 189 | OBS | | | |
| AMMONIA | WATER | SPECTROPHOTOMETRY | MG/L | 189 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG/L | 189 | OBS | | | |
| ORGANIC CARBON | WATER | WET COMBUSTION/ INFRARED SPECTROMETRY | MG/L | 189 | OBS | | | |

SURVEY OF ANADROMOUS FISH SPAWNING AREAS AFC-8 WATER QUALITY SURVEILLANCE A
RIVER TRIBUTARIES
DATA COLLECTED: MAY 1971 TO MAY 1971

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:
SURFACE WATER SAMPLES WERE TAKEN FROM 136 SITES ALONG 85 TRIBUTARIES IN THE POTOMAC RIVER DRAINAGE, DURING MAY, 1971, TO ACCESS WATER QUALITY CHARACTERISTICS WHICH MIGHT AFFECT SPAWNING ACTIVITIES.
(ALSO IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS: MAGNETIC DISC
ONE FILE OF DATA SHEETS ARE CURRENTLY BEING TRANSFERRED TO COMPUTER TAPE. ALSO AVAILABLE AS SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

036

GRID LOCATOR (LAT):
730787 730786 730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 136 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 136 | OBS | | | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 136 | OBS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 136 | OBS | | | |
| ELECTRICAL CONDUCTIVITY | WATER | LAB CONDUCTIVITY CELL | UMHOS/CM | 136 | OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 136 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 136 | OBS | | | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 136 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| TOTAL SOLIDS | WATER | DRY WEIGHT | PARTS PER MILLION | 136 OBS | | | |

SURVEY OF ANADROMOUS FISH SPAWNING AREAS: MAGOTHY, PATAPSCO, BACK, MIDDLE RIVER DRAINAGES: WATER QUALITY SURVEY

DATA COLLECTED: MAY 1973 TO JUNE 1973

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
300 SITES WITHIN 100 STREAMS OF THE MAGOTHY, PATAPSCO, BACK, MIDDLE RIVER DRAINAGES, MARYLAND, WERE INVESTIGATED FOR WATER QUALITY.
(ALSO IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
MAGNETIC DISC
SEVERAL NOTEBOOKS OF DATA FORMS ARE STORED ON COMPUTER TAPE.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 300 | STATIONS | | | 100 STREAMS, THREE SITES PER STREAM |
| TIME | EARTH | STATION TIME | YMD | 300 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 300 | OBS | | | |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL | UMHOS/CM | 300 | OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 300 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG PER LITER | 300 | OBS | | | |
| PH | WATER | SPECIFIC ION | PH UNITS | 300 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | ELECTRODE | | | | | | |
| TOTAL ALKALINITY | WATER | TITRATION | MG PER LITER | 300 | OBS | | | |
| TOTAL SOLIDS | WATER | DRY WEIGHT | PH | 300 | OBS | | | |
| BIOCHEMICAL | WATER | TITRATION | MG PER LITER | 300 | OBS | | | |
| OXYGEN DEMAND | | | | | | | | |
| LIGHT ATTENUATIO | WATER | SPECTROPHOTOMETRY | MG PER LITER | 300 | OBS | | | |
| N | | | | | | | | |

FISH KILL INVESTIGATIONS IN MARYLAND WATERS
DATA COLLECTED: JANUARY 1965 TO PRESENT


RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
REPORTED FISH KILLS IN MARYLAND WATERS, WATER ANALYSIS, ANALYSIS OF FISH FOR CAUSE OF DEATH, DATA FROM 221 KILLS, 72 IN 1973 THROUGH OCTOBER 11. COUNTS, SIZES, SPECIES LISTS, VALUES FOR FISHES INVOLVED.
(SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL )

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS; REPORTS
1 FILE CABINET DRAWER

FUNDING:
MD DEPT NAT RES

INVENTORY:

PUBLICATIONS:

CONTACT:
HOWARD KING 301-267-5783
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

040

GRID LOCATOR (LAT):
730785 730787 730795 730797

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 221 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHML | 221 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 500 | OBS | | | USUALLY SURFACE, SOME PROFILES |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 500 | OBS | | | USUALLY SURFACE, SOME PROFILES |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 1000 | OBS | | | YSI PROBE MODEL 51, PROFILE READINGS |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 1000 | OBS | | AZIDE MODIFICATION | PROFILES MADE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | WINKLER, PROFILE READINGS .N- SALINITY S- WATER M- CONDUCTIVITY U-PARTS PER THOUSAND T- OBS Q-1000 F- H- | |
| SALINITY | WATER | HYDROMETER | PARTS PER THOUSAND | 100 OBS | | | PROFILES MADE |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 1000 OBS | | | WATER RESOURCES ADMINISTRATION OF DEPARTMENT RUNS ANALYSES FOR PH, TOTAL ALKALINITY, HARDNESS, CYANIDE, PHENOLS, AMMONIA, METALS, PESTICIDES; SOME ANALYSES BY EPA LABORATORY |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 1000 OBS | | | |
| HARDNESS | WATER | EDTA TITRATION | PARTS PER MILLION | 1000 OBS | | | |
| CYANIDE | WATER | TITRATION | COLORIMETRY | 100 OBS | | | |
| PHENOLS | WATER | COLORIMETRY | COLORIMETRY | 100 OBS | | | |
| AMMONIA | WATER | SPECTROPHOTOMETRY | COLORIMETRY | 100 OBS | | | |
| ZINC | WATER | ATOMIC ABSORPTION SPECTROMETRY | COLORIMETRY | 100 OBS | | | |
| NICKEL | WATER | ATOMIC ABSORPTION SPECTROMETRY | COLORIMETRY | 100 OBS | | | |
| CADMIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | COLORIMETRY | 100 OBS | | | |
| CHROMIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | COLORIMETRY | 100 OBS | | | |
| COPPER | WATER | ATOMIC ABSORPTION SPECTROMETRY | COLORIMETRY | 100 OBS | | | |
| IRON | WATER | ATOMIC ABSORPTION SPECTROMETRY | COLORIMETRY | 100 OBS | | | |
| MERCURY | WATER | ATOMIC ABSORPTION SPECTROMETRY | COLORIMETRY | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| POLYCHLORINATED BIPHENYLS | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| DDT | WATER | GAS CHROMATOGRAPH | PARTS PER | 30 OBS | | | SPECIAL REQUEST |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | Y | BILLION | | | | IF SUSPECTED POLLUTANT |
| DDD | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| DDE | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| DIELDRIN | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| ALDRIN | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| CHLORDANE | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| HEPTACHLOR | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | SPECIAL REQUEST IF SUSPECTED POLLUTANT |
| COUNT OF PELAGIC FISH | WATER | VISUAL | TOTAL NUMBER, NUMBER PER SPECIES | 221 OBS | | | COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER SURFACE COUNT |
| COUNT OF DEMERSAL FISH | WATER | VISUAL | TOTAL NUMBER, NUMBER PER SPECIES | 221 OBS | | | COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER SURFACE COUNT |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER OF SPECIES IN KILL | 221 OBS | | | |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | NUMBER OF SPECIES IN KILL | 221 OBS | | | |
| LENGTH OF PELAGIC FISH | WATER | TOTAL LENGTH | ONE-TENTH INCH | 221 OBS | | | SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE |
| LENGTH OF DEMERSAL FISH | WATER | TOTAL LENGTH | ONE-TENTH INCH | 221 OBS | | | SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE |
| CYANIDE IN BIO MATERIAL | WATER | TITRATION | PARTS PER MILLION | 30 OBS | | | GILLS, VISCERA, AND MUSCLE OF DEAD AND |

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PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| PHENOLS IN BIO MATERIAL | WATER | COLORIMETRY | PARTS PER MILLION | 30 OBS | | | MORIBUND FISH |
| ZINC IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 30 OBS | | | |
| CADMIUM IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 30 OBS | | | |
| CHROMIUM IN BIO MATERIAL | WATER | GAMMA RAY SPECTROMETRY | PARTS PER MILLION | 30 OBS | | | |
| IRON IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 30 OBS | | | |
| COPPER IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 30 OBS | | | |
| MERCURY IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 30 OBS | | | |
| DDD IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | |
| DDE IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | |
| DDT IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | |
| DIELDRIN IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | |
| ALDRIN IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | |
| CHLORDANE IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | |
| HEPTACHLOR IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PARTS PER BILLION | 30 OBS | | | |

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DATA COLLECTED: APRIL 1968 TO JUNE 1970
RECEIVED: JANUARY 01, 1976

PROJECTS:
FISH COMMUNITIES OF SUSQUEHANNA RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, MARYLAND, COASTAL, SUSQUEHANNA RIVER

ABSTRACT:
PHYSICAL AND CHEMICAL DATA FROM 17 STATIONS OVER A 2 YEAR PERIOD IN THE SUSQUEHANNA RIVER AND SUSQUEHANNA FLATS. DATA RELATED TO FISH POPULATIONS AND DISTRIBUTIONS. COLLECTIONS AT 2 WEEK INTERVALS REPORTED AS MONTHLY AVERAGE FOR EACH STATION.

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; REPORTS
1 MAGNETIC TAPE REEL

FUNDING:
NMFS DEPARTMENT OF COMMERCE, BSFW DEPARTMENT OF INTERIOR, AND MARYLAND DNR

INVENTORY:

PUBLICATIONS:
ANNUAL PROJECT PROGRESS REPORTS MARYLAND AFCS 1-1,2,3

CONTACT:
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MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

044

GRID LOCATOR (LAT):
730795 730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 408 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 408 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | YSI MODEL 54 |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | YSI MODEL 54 |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED | MICROMHO | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | BECKMAN RS 5 |
| SULFATE | WATER | COLORIMETRY | PARTS PER | 408 | OBS | 2 WEEK | SURFACE AND | HACH KIT TEST |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | MILLION | | | INTERVALS | BOTTOM | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | BECKMAN LAB MODEL |
| PHOSPHATE | WATER | COLORIMETRY | PARTS PER BILLION | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | HACH KIT TEST |
| HARDNESS | WATER | EDTA TITRATION | PARTS PER MILLION | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | HACH KIT TEST |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | HACH KIT TEST |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | JACKSON CANDLE UNITS | 408 | OBS | 2 WEEK INTERVALS | SURFACE AND BOTTOM | HELLIGE MACHINE |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | 0 PT 1 METERS | 408 | OBS | 2 WEEK INTERVALS | | |
| DEPTH | WATER | UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC | FEET | 408 | OBS | 2 WEEK INTERVALS | BOTTOM | |
| BOTTOM TYPE | BOTTOM | VISUAL | MUD, SAND, SHELL, MIXED | 408 | OBS | 2 WEEK INTERVALS | BOTTOM | |

PHYSICAL AND CHEMICAL DATA FOR CHOPTANK RIVER
DATA COLLECTED: JUNE 1971 TO NOVEMBER 1972


RECEIVED: JANUARY 01, 1976

PROJECTS:
FISH POPULATIONS AND WETLAND TYPES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, MARYLAND, COASTAL, CHOPTANK RIVER

ABSTRACT:
PHYSICAL AND CHEMICAL DATA FOR 4 STATIONS AT 2 WEEK INTERVALS BETWEEN JUNE AND NOVEMBER OF 1971 AND 1972 IN THE CHOPTANK RIVER SYSTEM, MARYLAND. DATA BASE FILED AND CROSS INDEX WITH FISH COMMUNITY DATA. REPORTED AS MONTHLY AVERAGE FOR EACH PARAMETER

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; REPORTS
1 REEL MAGNETIC TAPE

FUNDING:
BSFW BOSTON OFFICE DEPARTMENT OF INTERIOR AND MARYLAND DNR

INVENTORY:

PUBLICATIONS:
ANNUAL PROJECT PROGRESS REPORT MD AFS 7-

CONTACT:
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MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

046

GRID LOCATOR (LAT):
730785 730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 96 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 96 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | BECKMAN RS5 |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | BECKMAN RS5 |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | YS1 MODEL 54 |
| SULFATE | WATER | COLORIMETRY | PARTS PER MILLION | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | HACH KIT TEST |
| PH | WATER | SPECIFIC ION | PH UNITS | 192 | OBS | 2 TIMES PER | SURFACE AND | BECKMAN LAB |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | ELECTRODE | | | | MONTH | BOTTOM | MODEL |
| PHOSPHATE | WATER | COLORIMETRY | PARTS PER BILLION | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | HACH KIT TEST |
| HARDNESS | WATER | EDTA TITRATION | PARTS PER MILLION | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION AS SILICON DIOXIDE | 192 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | HELLIGE |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | 0 FT 1 METERS | 192 | OBS | 2 TIMES PER MONTH | | |
| DEPTH | WATER | UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC | FEET | 192 | OBS | 2 TIMES PER MONTH | BOTTOM | |
| BOTTOM TYPE | BOTTOM | VISUAL | SAND, MUD, SHELL, MIXED | 192 | OBS | 2 TIMES PER MONTH | BOTTOM | |

000256 EVALUATION OF CHANNELIZATION EFFECTS ON AQUATIC HABITAT 

DATA COLLECTED: JULY 1973 TO PRESENT

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COASTAL, MARYLAND, EASTERN SHORE

ABSTRACT:
EXTENSIVE DATA BASE ON 19 CHANNELIZED STREAMS INCLUDING WATER CHEMISTRY, BENTHOS, AND FISHES. COMPARISONS ACROSS STREAMS BASED UPON TIME SINCE CHANNELIZED. DETERMINATION OF RECOVERY TIME AND SEQUENCE OF BIOTA AND CHEMICAL FACTORS.

DATA AVAILABILITY:
WITH REQUEST AND COST OF DUPLICATION

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
2 STANDARD FILE DRAWERS

FUNDING:
BSFW DINGELL-JOHNSON ACT AND MARYLAND DNR, PROJECT MD F 24 R

INVENTORY:

PUBLICATIONS:

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ANNAPOLIS MARYLAND USA 21401

048

GRID LOCATOR (LAT):
730785 730786 730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 648 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 648 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 1296 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | BECKMAN RS-5 |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 1296 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | BECKMAN RS-5 |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 1296 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | YSI MODEL 54 |
| SULFATE | WATER | COLORIMETRY | PARTS PER MILLION | 1296 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | HACH KIT TEST |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 1296 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | BECKMAN LAB MODEL |
| PHOSPHATE | WATER | COLORIMETRY | PARTS PER MILLION | 1296 | OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | HACH KIT TEST |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| HARDNESS | WATER | EDTA TITRATION | PARTS PER MILLION | 1296 OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 1296 OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION AS SILICON DIOXIDE | 1296 OBS | 2 TIMES PER MONTH | SURFACE AND BOTTOM | HELLIGE |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | 0 PT 1 METERS | 1296 OBS | 2 TIMES PER MONTH | | |
| DEPTH | WATER | WIRE LENGTH | FEET | 1296 OBS | 2 TIMES PER MONTH | BOTTOM | |
| BOTTOM TYPE | BOTTOM | VISUAL | SAND, MUD, SHELL, MIXED | 1296 OBS | 2 TIMES PER MONTH | BOTTOM | |
| BATHYMETRY | WATER | LEAD LINE | CROSS SECTION AREA IN SQ FT | 540 OBS | | | STREAM PROFILE |
| WEIGHT OF BENTHIC PLANTS | BOTTOM | WET WEIGHT | PER SQ FT PER TRANSECT | 540 OBS | 2 TIMES | | SAMPLE EVERY THIRD FOOT ON TRANSECT |
| COUNT OF BENTHIC PLANTS | BOTTOM | VISUAL | INTERCEPTED INCHES ON TRANSECT | 540 OBS | 2 TIMES | BOTTOM | 10 TRANSECTS ON 27 STREAMS |
| CURRENT SPEED | WATER | IMPELLOR METER | FT PER SECOND | 540 OBS | 2 TIMES | | SEASONAL READINGS |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | AVERAGE NUMBER PER AREA | 540 OBS | 2 TIMES | | SMALL PETERSEN GRAB, 1 SAMPLE PER TRANSECT |
| TAXONOMIC LIST OF BENTHIC ANIMALS | BOTTOM | KEY | NUMBER PER GENUS | 540 OBS | 2 TIMES | | SMALL PETERSEN GRAB, 1 SAMPLE PER TRANSECT |
| COMMUNITY STRUCTURE ANALYSIS | BOTTOM | CALCULATED | RANK ANALYSIS | 54 OBS | | | BENTHIC ANIMALS |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | NUMBER PER SPECIES PER AREA, SPECIES LIST | 27 OBS | | | 100 FOOT ROTENONE SAMPLE |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER PER SPECIES PER AREA, SPECIES LIST | 27 OBS | | | 100 FOOT ROTENONE SAMPLE |
| COUNT OF DEMERSAL FISH | WATER | VISUAL | AVERAGE NUMBER PER AREA | 27 OBS | | | |
| COUNT OF PELAGIC FISH | WATER | VISUAL | AVERAGE NUMBER PER AREA | 27 OBS | | | |
| COMMUNITY STRUCTURE ANALYSIS | WATER | CALCULATED | RANK ANALYSIS | 27 OBS | | | FISH COMMUNITY |
| LENGTH OF DEMERSAL FISH | WATER | TOTAL LENGTH | MILLIMETERS | 5000 OBS | | | ALL GAME FISHES |
| WEIGHT OF DEMERSAL FISH | WATER | WET WEIGHT | GRAMS | 5000 OBS | | | ALL GAME FISHES |
| AGE DATING OF | WATER | SCALES | YEARS | 5000 OBS | | | ALL GAME FISHES |

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PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| DEMERSAL FISH | | | | | | | |

# CHARACTERIZATION OF COASTAL AND ESTUARINE FISH NURSERY GROUNDS AS NATURAL COMMUNITIES



DATA COLLECTED: NOVEMBER 1965 TO AUGUST 1967

RECEIVED: JANUARY 15, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S.. COASTAL, CHESAPEAKE BAY, YORK RIVER, PAMUNKEY RIVER, WACHAPREAGUE

ABSTRACT:
THE YORK-PAMUNKEY RIVER SYSTEM IN VIRGINIA WAS SAMPLED MONTHLY FOR ONE YEAR FOR FISH, PHYTOPLANKTON, ZOOPLANKTON BENTHOS. HISTORICAL TRAWL DATA FOR THIS AREA AS WELL AS WACHAPREAGUE AREA WAS ORGANIZED, KEYPUNCHED AND COMBINED WITH THE RECENTLY ACQUIRED DATA TO ESTIMATE THE UTILIZATIONOF THESE AREAS AS NURSERY AREAS (SUMMARIES IN THREE QUARTERLY, ONE ANNUAL, ONE FINAL REPORTS. STUDY ALSO INCLUDES COMPILATION AND ANALYSIS OF PREVIOUSLY OBTAINED BIOLOGICAL AND HYDROLOGICAL DATA OF THE YORK AND PAMUNKEY RIVERS FROM JAN 1956 TO OCT 1965 )

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS; REPORTS; DATA SHEETS
SEVERAL FILES OF PUNCHED CARDS, DATA SHEETS, SEVEN REPORTS

FUNDING:

INVENTORY:

PUBLICATIONS:

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W A VAN ENGLE 804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 11 | STATIONS | MONTHLY AND SEVERAL 24 HR STATIONS | | 566 YORK & PAMUNKEY HISTORICAL STATIONS; 121 YORK & PAMUNKEY STUDY STATIONS, 3 WACHAPREAGUE HISTORCIAL STATIONS: 11 YORK & |
| TIME | EARTH | STATION TIME | YMDH | 700 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | PAMUNKEY 24 HR STATIONS |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 3100 | OBS | MONTHLY, HOURLY | SURFACE & BOTTOM | HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 3100 | OBS | MONTHLY, HOURLY | SURFACE & BOTTOM | HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA |
| SALINITY | WATER | TITRATION | PARTS PER THOUSAND | 3100 | OBS | MONTHLY, HOURLY | SURFACE & BOTTOM | HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 3100 | OBS | MONTHLY, HOURLY | SURFACE & BOTTOM | HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG PER LITER | 300 | OBS | MONTHLY, HOURLY | SURFACE & BOTTOM | CURRENT YORK & PAMUNKEY AND HISTORICAL WACHAPREAGUE DATA |
| TIDAL CURRENT SPEED | WATER | SAVONIUS ROTOR METER | KNOTS | 500 | OBS | MONTHLY | SURFACE & BOTTOM | CURRENT TRAWL STATIONS YORK & PAMUNKEY |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 121 | OBS | MONTHLY | SURFACE | CURRENT TRAWL STATIONS YORK & PAMUNKEY |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 121 | OBS | MONTHLY | | CURRENT TRAWL STATIONS YORK & PAMUNKEY |
| TOTAL SOLIDS | WATER | DRY WEIGHT | MG PER LITER | 121 | OBS | MONTHLY | | CURRENT TRAWL STATIONS YORK & PAMUNKEY |
| WIND SPEED | AIR | VISUAL | MILES PER HOUR | 121 | OBS | MONTHLY | | CURRENT TRAWL STATIONS YORK & PAMUNKEY |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS | 16 | OBS | TWICE IN ONE YEAR | | EIGHT STATIONS |
| SPECIES DETERMINATION OF BENTHIC | BOTTOM | KEY | SPECIES | 16 | OBS | TWICE IN ONE YEAR | | EIGHT STATIONS |

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PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| ANIMALS | | | | | | | | |
| STOMACH CONTENT ANALYSIS OF PELAGIC FISH | WATER | VISUAL | VOLUME AND NUMBER OF FOOD ITEMS | 1150 | OBS | | | |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER OF INDIVIDUALS | 654 | OBS | MONTHLY | | CURRENT AND HISTORICAL TRAWL DATA |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | SPECIES | 654 | OBS | MONTHLY | | CURRENT AND HISTORICAL TRAWL DATA |
| COUNT OF DEMERSAL FISH | WATER | VISUAL | NUMBER OF INDIVIDUALS | 654 | OBS | MONTHLY | | CURRENT AND HISTORICAL TRAWL DATA |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | SPECIES | 654 | OBS | MONTHLY | | CURRENT AND HISTORICAL TRAWL DATA |
| BIOMASS OF PELAGIC FISH | WATER | WET WEIGHT | GRAMS PER TOW | 654 | OBS | MONTHLY | | CURRENT AND HISTORICAL TRAWL DATA |
| BIOMASS OF DEMERSAL FISH | WATER | WET WEIGHT | GRAMS PER TOW | 654 | OBS | MONTHLY | | CURRENT AND HISTORICAL TRAWL DATA |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS | 845 | OBS | MONTHLY | | HISTORICAL TRAWL DATA OF BLUE CRABS 1956 TO 1967 |
| BIOMASS OF BENTHIC ANIMALS | BOTTOM | WET WEIGHT | GRAMS PER TOW | 845 | OBS | MONTHLY | | HISTORICAL TRAWL DATA OF BLUE CRABS 1956 TO 1967 |
| COUNT OF ZOOPLANKTON | WATER | VISUAL | NUMBER OF INDIVIDUALS | 250 | OBS | MONTHLY | | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | SPECIES | 250 | OBS | MONTHLY | | |
| COUNT OF PHYTOPLANKTON | WATER | VISUAL | NUMBER OF INDIVIDUALS | 250 | OBS | MONTHLY | | |

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000291 CALVERT CLIFFS WATER QUALITY AND PHYTOPLANKTON SURVEY PAGE 01
DATA COLLECTED: AUGUST 1971 TO PRESENT RECEIVED: JANUARY 15, 1974

PROJECTS:
ECOLOGICAL EFFECTS OF NUCLEAR STEAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY

ABSTRACT:
PHYTOPLANKTON AND WATER QUALITY SAMPLES ARE OBTAINED AT BIWEEKLY INTERVALS FROM SEVEN STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR S.E.S. SITE ON THE WESTERN SHORE OF THE CHESAPEAKE BAY. DATA WILL BE USED FOR PRE AND POST-OPERATIVE ASSESSMENT OF POWER PLANT'S ENVIRONMENTAL INFLUENCE.
(PROGRESS REPORTS TO U S ATOMIC ENERGY COMMISSION)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL NOTEBOOKS OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID A FLEMER 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 7 | STATIONS | | | CALVERT CLIFFS NUCLEAR S.E.S. SITE |
| TIME | EARTH | STATION TIME | YMD | 100 | OBS | BIWEEKLY, MONTHLY DURING WINTER | | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 300 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE, MIDWATER, BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| SALINITY | WATER | TITRATION | PARTS PER THOUSAND | 300 | OBS | BIWEEKLY, MONTHLY | SURFACE, MIDWATER, | PERIODIC 24 HR SAMPLING |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | DURING WINTER | BOTTOM | ROUTINES AT ONE STATION |
| SALINITY | WATER | INDEX OF REFRACTION | PARTS PER THOUSAND | 300 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE, MIDWATER, BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| ORGANIC CARBON | SUSPENDED | DRY COMBUSTION/ INFRARED SPECTROMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| CHLOROPHYLL A | WATER | FLUOROMETRY | UG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| ORGANIC NITROGEN | SUSPENDED | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| NITRATE | WATER | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| AMMONIA | WATER | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| ORGANIC NITROGEN | DISSOLVED | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| NITROGEN | WATER | AUTOANALYZER | MG PER LITER | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MG C PER M2 PER HOUR | 100 | OBS | BIWEEKLY, MONTHLY DURING | SURFACE | PERIODIC 24 HR SAMPLING ROUTINES AT |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | WINTER | | ONE STATION |
| COUNT OF PHYTOPLANKTON | WATER | VISUAL | NUMBER OF INDIVIDUALS | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | SPECIES | 200 | OBS | BIWEEKLY, MONTHLY DURING WINTER | SURFACE AND BOTTOM | SELECTED SERIES OF STATIONS FOR IDENTIFICAT ION REMAINING SAMPLES STORED |

DATA COLLECTED: JANUARY 1965 TO DECEMBER 1968 RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY

ABSTRACT:
TO DETERMINE THE EFFECTS ON THE BENTHOS OF CHANNEL DREDGING AND OVERBOARD SPOIL DISPOSAL. STATIONS IN THE UPPER CHESAPEAKE BAY WERE BOTTOM SAMPLED FOR BENTHIC ANIMALS AND SEDIMENT.
(DATA AVIALABLE IN REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR. SPECIES DIVERSITY, BIOMASS, CALCULATIONS PRESENTED IN FINAL REPORT )

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HAYES T. PFITZENMEYER 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 59 | STATIONS | | | 29 UPPER BAY STATIONS, 30 DREDGE DISPOSAL AREA STATIONS |
| TIME | EARTH | STATION TIME | YMD | 710 | OBS | | | UPPER BAY STATIONS SAMPLED QUARTERLY BEGINNING JAN 1966; DISPOSAL AREA STATIONS SAMPLED |

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PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | BIMONTHLY BEGINNING SEPT 1966 |
| SIZE ANALYSIS | SEDIMENT | SIEVE | PERCENT SAND, SILT AND CLAY | 120 OBS | | | SEDIMENT SAMPLES TAKEN AT SELECTED DISPOSAL AREA STATIONS BEFORE AND AFTER DREDGING OPERATION |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS | 710 OBS | QUARTERLY OR BIMONTHLY | | |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | SPECIES | 710 OBS | QUARTERLY OR BIMONTHLY | | |
| ORGANIC CARBON | SEDIMENT | ASH WEIGHT | PERCENT ORGANIC CARBON | 13 OBS | | | SAMPLES OF FIRST FIVE CENTIMETERS OF SEDIMENT WERE TAKEN AT SELECTED STATIONS |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 500 OBS | | SURFACE | SELECTED STATIONS |
| TEMPERATURE | WATER | THERMISTOR | DEGREES CENTIGRADE | 500 OBS | | SURFACE | SELECTED STATIONS |

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DATA COLLECTED: NOVEMBER 1965 TO NOVEMBER 1967

RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY

ABSTRACT:
PHYTOPLANKTON PRODUCTIVITY, CHLOROPHYLL A, AND LIGHT TRANSPARENCY WERE MEASURED AT 29 STATIONS IN THE UPPER CHESAPEAKE BAY FOR TWO YEARS. OBJECTIVES WERE TO ASCERTAIN ANY DIRECT GROSS EFFECTS OF DREDGING AND SPOIL DISPOSAL ON PHYTOPLANKTON AND TO PROVIDE BACKGROUND DATA FOR PREDICTION OF EFFECTS OF FUTURE DISPOSAL.
(DATA AVAILABLE IN NUMEROUS REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID A FLEMER 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 29 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 2400 | OBS | BIWEEKLY | | |
| LIGHT ATTENUATION | WATER | IN SITU TRANSMISSOMETER | EXTINCTION COEFFICIENTS | 2400 | OBS | BIWEEKLY | | SUBMARINE PHOTOMETER USED |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 2400 | OBS | BIWEEKLY | | COMPARED TO PHOTOMETER VALUES |
| PHOTOSYNTHETIC RATE | WATER | OXYGEN DETERMINATION | MG C PER M3 PER HOUR | 500 | OBS | BIWEEKLY | | ONE SHALLOW WATER AND CHANNEL STATION IN EACH TRANSECT |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| CHLOROPHYLL A | WATER | FLUOROMETRY | MG PER M3 | 5000 OBS | BIWEEKLY | SURFACE TO BOTTOM | FROM APRIL 1966 TO AUGUST 1967 SURFACE AND THREE METER INTERVALS TO BOTTOM |

000668

# DARK AND LIGHT BOTTLE STUDIES IN THE LOWER YORK RIVER, VIRGINIA JUNE 1961-AUGUST 1962



DATA COLLECTED: JUNE 1961 TO AUGUST 1962

RECEIVED: MARCH 10, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
CHLORINITY, LIGHT EXTINCTION, DISSOLVED OXYGEN, PARTICULATE ORGANIC CARBON, PARTICULATE INORGANIC MATTER, AND PHOTOSYNTHETIC RATE WERE MEASURED IN WATER SAMPLES COLLECTED IN THE LOWER YORK RIVER, VIRGINIA OVER A 15 MONTH PERIOD BEGINNING JUNE 1961. THE DATA ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS AT COST OF REPRODUCTION AND HANDLING. THE RESULTS OF THE STUDY HAVE BEEN PUBLISHED IN THE VIMS SPECIAL SCIENTIFIC REPORT NO. 45.

DATA AVAILABILITY:
COST OF REPRODUCTION AND HANDLING CHARGE

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
812 OBS IN A VIMS SPECIAL SCIENTIFIC REPORT NO.45

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 45

CONTACT:
LIBRARIAN 703 642 2111 X19
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 1 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 22 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C 0 PT 2 | 116 | OBS | | SURFACE TO BOTTOM PROFILE | |
| CHLORINITY | WATER | TITRATION | PARTS PER THOUSAND | 116 | OBS | | SURFACE TO BOTTOM PROFILE | MOHR TITRATION |
| LIGHT EXTINCTION | WATER | UNKNOWN | LOG OF RATIO | 116 | OBS | | SURFACE TO BOTTOM PROFILE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG PER LITER | 116 | OBS | | SURFACE TO BOTTOM PROFILE | WINKLER |
| ORGANIC CARBON | SUSPENDED | DRY COMBUSTION/ GAS DISPLACEMENT | MG PER LITER | 116 | OBS | | SURFACE TO BOTTOM PROFILE | MEMBRANE FILTRATION |
| PARTICULATE INORGANIC MATTER | WATER | ASH WEIGHT | MG PER LITER | 116 | OBS | | SURFACE TO BOTTOM PROFILE | MEMBRANE FILTRATION |
| PHOTOSYNTHETIC RATE | WATER | OXYGEN DETERMINAT ION | G CAL PER SQ CM | 116 | OBS | | SURFACE TO BOTTOM PROFILE | GROSS PRODUCTION , NET PRODUCTIO N AND RESPIRATI ON RATE COMPUTED |

DATA COLLECTED: JUNE 1971 TO PRESENT

RECEIVED: MARCH 11, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
LEVELS OF ORGANIC AND INORGANIC CARBON, ADENOSINE TRIPHOSPHATE, OXYGEN AND SALINITY HAVE BEEN MEASURED ON WATER SAMPLES COLLECTED MONTHLY AT A DEPTH OF 6 INCHES IN THE CHESAPEAKE BAY, BEGINNING JUNE 1971 AND CONTINUING TO THE PRESENT.

DATA AVAILABILITY:
THE DATA ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS. THE RESULTS OF THE STUDY HAVE BEEN PUBLISHED IN A VIMS THESIS

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
8000 OBS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS

CONTACT:
LIBRARIAN 703 642 2111 X35
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

063

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 2 | STATIONS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | | |
| TIME | EARTH | STATION TIME | YMDHL | 22 | STATIONS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 1000 | OBS | MONTHLY, A TWENTY FOUR | 6 INCHES | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | HOUR TIDAL CYCLE SAMPLED HOURLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | 6 INCHES | WINKLER |
| ADENOSINE TRIPHOSPHATE | WATER | BIO-ASSAY | MG ATP PER LITER, MG CARBON PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | 6 INCHES | LUCIFERIN-LUCIFERASE BETA SCINTILLATION |
| CARBON | WATER | WET COMBUSTION/ INFRARED SPECTROMETRY | MILLIGRAMS PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | 6 INCHES | |
| ORGANIC CARBON | WATER | WET COMBUSTION/ INFRARED SPECTROMETRY | MILLIGRAMS PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | 6 INCHES | |
| ORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | MILLIGRAMS PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | 6 INCHES | |
| INORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | MILLIGRAMS PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | 6 INCHES | |
| ORGANIC CARBON | SUSPENDED | WET COMBUSTION/ INFRARED SPECTROMETRY | MILLIGRAMS PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | 6 INCHES | |

PROJECTS:
OPERATION AGNES

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, MOUTH OF CHESAPEAKE BAY, VIRGINIA, MOUTH OF POTOMAC RIVER

ABSTRACT:
FLUX MEASUREMENTS FOR 9 STATIONS FOR THE MOUTH OF THE POTOMAC RIVER AND CHESAPEAKE BAY WERE TAKEN FOR FOUR 24 HOUR PERIODS SAMPLED HOURLY AT 5 SAMPLE DEPTHS, SURFACE TO THE BOTTOM TO STUDY THE EFFECTS OF HURRICANE AGNES. DATA IS INCLUDED IN VIMS MASTER FILE

DATA AVAILABILITY: [illegible]

PLATFORM TYPES:
SHIP

ARCHIVAL MEDIA:
DATA SHEETS
DATA SHEETS FOR 9 STATIONS TAKEN AT 24 HOUR PERIODS SAMPLED HOURLY AT FOUR SAMPLE DEPTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA TO BE INCLUDED ON VIMS MASTER FILE

CONTACT:
WILLIAM MACINTYRE 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 9 | STATIONS | FOUR 24 HOUR PERIODS SAMPLED HOURLY | | |
| TIME | EARTH | STATION TIME | YMDHL | 36 | STATIONS | FOUR 24 HOUR PERIODS SAMPLED HOURLY | | |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 2600 | OBS | FOUR 24 HOUR PERIODS SAMPLED HOURLY | FOUR DEPTHS, SURFACE TO BOTTOM | MOLYBDATE |
| [illegible] | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS | 2600 | OBS | FOUR 24 HOUR | FOUR DEPTHS, | MOLYBDATE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PHOSPHATE | | | PER LITER | | | PERIODS SAMPLED HOURLY | SURFACE TO BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 2600 | OBS | FOUR 24 HOUR PERIODS SAMPLED HOURLY | FOUR DEPTHS, SURFACE TO BOTTOM | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 2600 | OBS | FOUR 24 HOUR PERIODS SAMPLED HOURLY | FOUR DEPTHS, SURFACE TO BOTTOM | DIAZOITATION |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MILLIGRAMS PER LITER | 2600 | OBS | FOUR 24 HOUR PERIODS SAMPLED HOURLY | FOUR DEPTHS, SURFACE TO BOTTOM . | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 2600 | OBS | FOUR 24 HOUR PERIODS SAMPLED. HOURLY | FOUR DEPTHS, SURFACE TO BOTTOM | |

DATA COLLECTED: AUGUST 1972 TO SEPTEMBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:
OPERATION AGNES

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, OREGON INLET, NORTH CAROLINA TO CAPE CHARLES, VIRGINIA CONTINENTAL SHELF

ABSTRACT:
SALINITY, NITROGEN AND PHOSPHORUS WERE MEASURED AT 83 STATIONS ON THE VIRGINIA CONTINENTAL SHELF AT THE SURFACE, MID-DEPTH AND BOTTOM. DATA IS INCLUDED IN VIMS MASTER FILE

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS FOR 83 DAILY STATIONS FOR 3 DEPTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA TO BE INCLUDED ON VIMS MASTER FILE

CONTACT:
WILLIAM MACINTYRE 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATION (LAT):
736765 736775 736764 736774

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | LONG RANGE NAVIGATIONAL NET | DM | 83 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 83 | STATIONS | | | |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 250 | OBS | | SURFACE, MID-DEPTH AND BOTTOM | MOLYBDATE |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 250 | OBS | | SURFACE, MID-DEPTH AND BOTTOM | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 250 | OBS | | SURFACE, MID-DEPTH AND BOTTOM | DIAZOITATION |
| ORGANIC | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS | 250 | OBS | | SURFACE, MID- | KJELDAHL |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| NITROGEN | | | PER LITER | | | DEPTH AND BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 250 OBS | | SURFACE, MID-DEPTH AND BOTTOM | |

ENTRY: [illegible]

VEPCO YORKTOWN POWER STATION ECOLOGICAL STUDY
DATA COLLECTED: APRIL 1972 TO PRESENT



RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A CONTINUING ECOLOGICAL STUDY OF THE VEPCO YORKTOWN POWER STATION IN THE YORK RIVER CONSISTING OF 4 STATIONS SAMPLED MONTHLY FROM THE SURFACE TO THE BOTTOM AT 2 METER INTERVAL. PHYSICAL AND CHEMICAL PARAMETERS ARE STRESSED

DATA AVAILABILITY:
WITH APPROVAL FROM VEPCO

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 10 PARAMETERS MEASURED MONTHLY AT 4 STATIONS FROM 1972 TO THE PRESENT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT JORDAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 4 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDHL | 50 | STATIONS | 4 STATIONS/ MONTH | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 300 | OBS | 4 STATIONS/ MONTH | SURFACE TO BOTTOM AT 2 METER INTERVALS | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 300 | OBS | 4 STATIONS/ MONTH | SURFACE TO BOTTOM AT 2 METER INTERVALS | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 300 | OBS | 4 STATIONS/ MONTH | SURFACE TO BOTTOM AT 2 METER INTERVALS | WINKLER |

[illegible]

VEPCO YORKTOWN POWER STATION ECOLOGICAL STUDY (CONT.)

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | |
| TOTAL ALKALINITY | WATER | SPECIFIC ION ELECTRODE | MILLIEQUIVALENTS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | |
| AMMONIA | WATER | TITRATION | MICROGRAM ATOMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | DISTILLATION |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | DIAZOITATION |
| ORGANIC NITROGEN | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | KJELDAHL |
| ORGANIC NITROGEN | DISSOLVED | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | KJELDAHL |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | MOLYBDATE |
| PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | MOLYBDATE |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MICROGRAMS PER LITER | 100 | OBS | 4 STATIONS/ MONTH | SURFACE AND BOTTOM | |

000772 THE ROLE OF MARSHES IN PHOSPHORUS, NITROGEN AND DETRITUS DYNAMICS OF COASTAL PLAIN ESTUARIES



DATA COLLECTED: JUNE 1971 TO PRESENT

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
PHOSPHORUS, NITROGEN AND DETRITUS DYNAMICS OF COASTAL ESTUARIES IN THE LOWER YORK RIVER. 2 STATIONS WERE SAMPLED EVERY MONTH AT HOURLY INTERVALS OVER A 24 HOUR TIDAL CYCLE FROM 1971 TO THE PRESENT. DATA IS PART OF A DISSERTATION

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
VIMS DISSERTATION OF 12 PARAMETERS MEASURED AT 2 STATIONS SAMPLED MONTHLY OVER A 24 HOUR TIDAL CYCLE AT HOURLY INTERVALS FROM 1971 TO THE PRESENT

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS DISSERTATION

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 2 | STATIONS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | | |
| TIME | EARTH | STATION TIME | YMDHL | 22 | STATIONS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER | 1000 | OBS | MONTHLY, A | SIX INCHES | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | THOUSAND | | TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG PER LITER | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | WINKLER |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | DIAZOITATION |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | CADMIUM REDUCTION, DIAZOITATION |
| AMMONIA | WATER | TITRATION | MG PER LITER | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | DISTILLATION |
| ORGANIC NITROGEN | DISSOLVED | SPECTROPHOTOMETRY | MG PER LITER | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | KJELDHAL |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | MOLYBDATE |
| PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 1000 OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED | SIX INCHES | MOLYBDATE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 1000 | OBS | HOURLY MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | MOLYBDATE |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MICROGRAMS PER LITER | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MILLIGRAM CARBON FIXED PER LITER PER HOUR | 1000 | OBS | MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY | SIX INCHES | |

ZOOPLANKTON OF CHESAPEAKE BAY, AGNES SPECIAL CRUISES
DATA COLLECTED: JULY 1972 TO SEPTEMBER 1972



RECEIVED: MAY 16, 1973

PROJECTS:
OPERATION AGNES

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
HYDROGRAPHIC AND ZOOPLANKTON BIOLOGICAL MEASUREMENTS WERE TAKEN AT 40 STATIONS IN THE LOWER CHESAPEAKE BAY FOR 7 WEEKS AT 13 OF THE STATIONS EACH WEEK TO DETERMINE THE EFFECTS OF HURRICANE AGNES. THE WEEKLY BIOLOGICAL MEASUREMENTS WERE TAKEN FROM OBLIQUE SURFACE TO BOTTOM TOWS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 17 PARAMETERS MEASURED AT 13 STATIONS TAKEN WEEKLY FOR 7 WEEKS

FUNDING:

INVENTORY:

PUBLICATIONS:
WATER RESEARCH 1973 VOL 7, 451-460

CONTACT:
GEORGE GRANT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766 730775 730765

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 40 | STATIONS | 13 STATIONS/ WEEK | | 13 OF 40 STATION CHOICES SAMPLED WEEKLY |
| TIME | EARTH | STATION TIME | YMDHL | 91 | STATIONS | 13 STATIONS/ WEEK | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 240 | OBS | 13 STATIONS/ WEEK | SURFACE TO BOTTOM AT TWO METER INTERVALS | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 240 | OBS | 13 STATIONS/ WEEK | SURFACE TO BOTTOM AT TWO METER | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | INTERVALS | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 240 | OBS | 13 STATIONS/ WEEK | SURFACE TO BOTTOM AT TWO METER INTERVALS | WINKLER |
| WIND DIRECTION | AIR | DIRECTION VANE | COMPASS POINTS | 91 | OBS | 13 STATIONS/ WEEK | SEA LEVEL | |
| WIND SPEED | AIR | VISUAL | KNOTS | 91 | OBS | 13 STATIONS/ WEEK | SEA LEVEL | |
| LIGHT ATTENUATIO N | WATER | IN SITU TRANSMISSOMETER | METERS | 91 | OBS | 13 STATIONS/ WEEK | SEA LEVEL | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 80 | OBS | 13 STATIONS/ WEEK | SURFACE AND SIX METERS | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 80 | OBS | 13 STATIONS/ WEEK | SURFACE AND SIX METERS | DIAZOITATION |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 80 | OBS | 13 STATIONS/ WEEK | SURFACE AND SIX METERS | MOLYBDATE |
| COUNT OF ZOOPLANKTON | WATER | FIXED, UNSTAINED, ALIQUOT | NUMBER OF INDIVIDUALS PER CUBIC METER | 91 | OBS | 13 STATIONS/ WEEK | OBLIQUE SURFACE TO BOTTOM TOWS | EIGHT INCH BONGO NET |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER CUBIC METER | 91 | OBS | 13 STATIONS/ WEEK | OBLIQUE SURFACE TO BOTTOM TOWS | EIGHT INCH BONGO NET |
| BIOMASS OF ZOOPLANKTON | WATER | DRY WEIGHT | MILLIGRAMS PER CUBIC METER | 91 | OBS | 13 STATIONS/ WEEK | OBLIQUE SURFACE TO BOTTOM TOWS | FREEZE DRIED |
| BIOMASS OF ZOOPLANKTON | WATER | ASH WEIGHT | MILLIGRAMS PER CUBIC METER | 91 | OBS | 13 STATIONS/ WEEK | OBLIQUE SURFACE TO BOTTOM TOWS | |
| PROTEIN IN BIO MATERIAL | WATER | SPECTROPHOTOMETRY | PERCENT OF ASH WEIGHT | 80 | OBS | 13 STATIONS/ WEEK | OBLIQUE SURFACE TO BOTTOM TOWS | ZOOPLANKTON LOWRY |
| LIPIDS IN BIO MATERIAL | WATER | SPECTROPHOTOMETRY | PERCENT OF ASH WEIGHT | 80 | OBS | 13 STATIONS/ WEEK | OBLIQUE SURFACE TO BOTTOM TOWS | ZOOPLANKTON, BLIGH AND DYER EXTRACTION |
| FATTY ACIDS IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PERCENT OF ASH WEIGHT | 80 | OBS | 13 STATIONS/ WEEK | OBLIQUE SURFACE TO BOTTOM TOWS | ZOOPLANKTON |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 80 | OBS | 13 STATIONS/ WEEK | | |

[illegible]

ZOOPLANKTON OF LOWER CHESAPEAKE BAY
DATA COLLECTED: AUGUST 1971 TO JULY 1973



RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
ZOOPLANKTON MEASUREMENTS FROM 25 MONTHLY STATIONS FOR 2 YEARS IN THE LOWER CHESAPEAKE BAY. AN 8 IN. BONGO NET WAS USED ON AN OBLIQUE SURFACE TO BOTTOM TOW. ACCOMPANYING HYDROGRAPHIC DATA WERE ALSO TAKEN

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 18 PARAMETERS AT 25 MONTHLY STATIONS FOR 2 YEARS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA TO BE INCLUDED IN REPORTS TO: NATIONAL SCIENCE FOUNDATION AS RANN REPORTS

CONTACT:
GEORGE GRANT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766 730775 730765

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 25 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDHL | 600 | STATIONS | 25 STATIONS/ MONTH | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 1800 | OBS | 25 STATIONS/ MONTH | SURFACE TO BOTTOM AT 2 METER INTERVALS | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 1800 | OBS | 25 STATIONS/ MONTH | SURFACE TO BOTTOM AT 2 METER INTERVALS | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 1800 | OBS | 25 STATIONS/ MONTH | SURFACE TO BOTTOM AT 2 METER INTERVALS | WINKLER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| WIND DIRECTION | AIR | DIRECTION VANE | COMPASS POINTS | 625 | OBS | 25 STATIONS/ MONTH | SEA LEVEL | |
| WIND SPEED | AIR | VISUAL | KNOTS | 625 | OBS | 25 STATIONS/ MONTH | SEA LEVEL | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 625 | OBS | 25 STATIONS/ MONTH | SEA LEVEL | |
| LIGHT ATTENUATIO N | WATER | IN SITU TRANSMISSOMETER | METERS | 625 | OBS | 25 STATIONS/ MONTH | SEA LEVEL | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 800 | OBS | 25 STATIONS/ MONTH | SURFACE AND SIX METERS | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 800 | OBS | 25 STATIONS/ MONTH | SURFACE AND SIX METERS | DIAZOITATION |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 800 | OBS | 25 STATIONS/ MONTH | SURFACE AND SIX METERS | MOLYBDATE |
| COUNT OF ZOOPLANKTON | WATER | FIXED, UNSTAINED, ALIQUOT | NUMBERS OF INDIVIDUALS PER CUBIC METER | 625 | OBS | 25 STATIONS/ MONTH | OBLIQUE SURFACE TO BOTTOM TOWS | EIGHT INCH BONGO NETS |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER CUBIC METER | 625 | OBS | 25 STATIONS/ MONTH | OBLIQUE SURFACE TO BOTTOM TOWS | EIGHT INCH BONGO NETS |
| BIOMASS OF ZOOPLANKTON | WATER | DRY WEIGHT | MILLIGRAMS PER CUBIC METER | 625 | OBS | 25 STATIONS/ MONTH | OBLIQUE SURFACE TO BOTTOM TOWS | FREEZE-DRIED, ASHING |
| PROTEIN IN BIO MATERIAL | WATER | SPECTROPHOTOMETRY | PERCENT OF ASH DRY WEIGHT | 384 | OBS | 25 STATIONS/ MONTH | OBLIQUE SURFACE TO BOTTOM TOWS | ZOOPLANKTON LOWERY |
| LIPIDS IN BIO MATERIAL | WATER | SPECTROPHOTOMETRY | PERCENT OF ASH DRY WEIGHT | 384 | OBS | 25 STATIONS/ MONTH | OBLIQUE SURFACE TO BOTTOM TOWS | ZOOPLANKTON, BLIGH AND DYER EXTRACTION |
| FATTY ACIDS IN BIO MATERIAL | WATER | GAS CHROMATOGRAPH Y | PERCENT OF ASH DRY WEIGHT | 384 | OBS | 25 STATIONS/ MONTH | OBLIQUE SURFACE TO BOTTOM TOWS | ZOOPLANKTON |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 384 | OBS | 25 STATIONS/ MONTH | | |

000777

SUSPENDED PARTICULATE MATERIAL IN THE LOWER YORK RIVER
DATA COLLECTED: JUNE 1961 TO JULY 1962

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
8 PARAMETERS WERE MEASURED AT A FIXED STATION IN THE LOWER YORK RIVER 15 TIMES IN A YEAR TO STUDY THE DISTRIBUTIONAL PATTERNS OF PARTICULATE MATTER IN THE WATER COLUMN AND ITS EFFECT ON PHOTOSYNTHESIS. DATA APPEARS IN THE VIMS SPECIAL SCIENTIFIC REPORT NO 44

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
VIMS SPECIAL SCIENTIFIC REPORT NO 44 FOR 1 STATION MEASURED 15 TIMES IN A YEAR

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 44

CONTACT:
LIBRARIAN 703-642-2111 X19
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

078

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 1 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 15 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 15 | OBS | | SURFACE TO BOTTOM PROFILE | |
| CHLORINITY | WATER | TITRATION | PARTS PER THOUSAND | 150 | OBS | | SURFACE TO BOTTOM PROFILE | MOHR |
| LIGHT EXTINCTION | WATER | UNKNOWN | LOG OF RATIO | 150 | OBS | | SURFACE TO BOTTOM PROFILE | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG PER LITER | 150 | OBS | | SURFACE TO BOTTOM PROFILE | WINKLER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MG PER LITER | 120 | OBS | | SURFACE TO BOTTOM PROFILE | |
| PARTICULATE INORGANIC MATTER FLUX | WATER | DRY COMBUSTION/ GAS DISPLACEMENT | MG PER LITER | 120 | OBS | | SURFACE TO BOTTOM PROFILE | MEMBRANE FILTRATION |
| PARTICULATE INORGANIC MATTER | WATER | ASH WEIGHT | MG PER LITER | 120 | OBS | | SURFACE TO BOTTOM PROFILE | MEMBRANE FILTRATION |
| PHOTOSYNTHETIC RATE | WATER | OXYGEN DETERMINATION | GRAM CAL PER SQUARE CM PER DAY | 111 | OBS | | 2, 6 AND 10 FEET | NET PRODUCTION, GROSS PRODUCTION AND RESPIRATION RATES COMPUTED |

000780 LIGHT AND DARK BOTTLE STUDIES IN THE LOWER CHESAPEAKE REGION
DATA COLLECTED: JUNE 1961 TO AUGUST 1961



RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, YORK RIVER

ABSTRACT:
LIGHT AND DARK BOTTLE STUDIES AT 4 STATIONS MEASURED WEEKLY FOR 3 MONTHS IN THE LOWER YORK RIVER. DATA APPEARS IN VIMS SPECIAL SCIENTIFIC REPORT NO 39. PHOTOSYNTHETIC RATE BASED ON 20 FOOT WATER COLUMN; DISSOLVED OXYGEN ON SURFACE TO BOTTOM PROFILE

DATA AVAILABILITY:
COST OF REPRODUCTION AND HANDLING COST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
VIMS SPECIAL SCIENTIFIC REPORT NO 39- 4 STATIONS MEASURED WEEKLY FOR 3 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 39

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

080

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 4 | STATIONS | WEEKLY | MEAN LOW WATER DEPTH | |
| TIME | EARTH | STATION TIME | YMDL | 6 | STATIONS | WEEKLY | | |
| PHOTOSYNTHETIC RATE | WATER | OXYGEN DETERMINAT ION | G CAL PER SQ CM PER DAY | 200 | OBS | WEEKLY | BASED ON TWENTY FOOT WATER COLUMN | GROSS PRODUCTION , NET PRODUCTIO N RESPIRATION COMPUTED |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 450 | OBS | WEEKLY | SURFACE TO BOTTOM PROFILE | |
| CHLORINITY | WATER | TITRATION | PARTS PER THOUSAND | 450 | OBS | WEEKLY | SURFACE TO BOTTOM PROFILE | MOHR |
| DISSOLVED | WATER | TITRATION | MG PER LITER | 450 | OBS | WEEKLY | SURFACE TO | WINKLER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| OXYGEN GAS | | | | | | BOTTOM PROFILE | |

081

000788

STUDY OF CHANNEL SED[illegible]TS IN THE JAMES RIVER
DATA COLLECTED: OCTOBER 1972 TO NOVEMBER 1972

RECEIVED: MAY 16, 1973



PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
CHEMICAL ANALYSIS OF 50 CORES IN THE CHANNEL OF THE JAMES RIVER.

DATA AVAILABILITY:
COST OF REPRODUCTION AND SMALL HANDLING CHARGE

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
50 CORES

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 42

CONTACT:
ROBERT HUGGETT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

082

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION, RIVER MILES | 50 | STATIONS | | | CENTER OF CHANNEL RED MARKER, BLACK MARKER |
| TIME | EARTH | STATION TIME | YMDL | 148 | STATIONS | | | |
| TOTAL SOLIDS | SEDIMENT | DRY WEIGHT | PER CENT | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | |
| VOLATILE TOTAL SOLIDS | SEDIMENT | ASH WEIGHT | PER CENT | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| CHEMICAL OXYGEN DEMAND | SEDIMENT | DIGESTION | PER CENT | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | |
| CHEMICAL OXYGEN DEMAND | SEDIMENT | TITRATION | PER CENT | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | |
| ORGANIC NITROGEN | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | KJELDAHL |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | MOLYBDATE |
| COPPER | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | NITRIC ACID DIGESTION |
| ZINC | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | NITRIC ACID DIGESTION |
| LEAD | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | NITRIC ACID DIGESTION |
| MERCURY | SEDIMENT | TITRATION | PARTS PER MILLION | 148 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | SULFURIC ACID DIGESTION |

083

DATA COLLECTED: JULY 1965 TO DECEMBER 1967

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER

ABSTRACT:
2.5 YEARS OF AUTOMATED MARINE CHEMISTRY AT A FIXED STATION IN THE YORK RIVER. TOTAL CHLOROPHYLL WAS MEASURED WITH A FLOUROMETER AND AMINO ACIDS WERE MEASURED BY ION EXCHANGE CHROMATOGRAPHY USING AN AUTOANALYZER EACH WEEK FOR 130 WEEKS. 6 MONTHS OF THE DATA IS PUBLISHED; THE REMAINDER IS ON DATA SHEETS.
(6 MONTHS OF DATA PUBLISHED, REMAINDER ON DATA SHEETS)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS: DATA SHEETS
A REPORT OF 4 PARAMETERS AT 1 STATION- 130 OBS/PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:
AUTOMATION IN ANALYTICAL CHEM, 1966 SYMPOSIUM, MEDIAD PUBL, WHITE PLAINS, N Y

CONTACT:
KENNETH L WEBB 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

084

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 1 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 130 | STATIONS | 1 OBS/WEEK | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 130 | OBS | 1 OBS/WEEK | SURFACE | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 130 | OBS | 1 OBS/WEEK | SURFACE | |
| TOTAL CHLOROPHYLL | WATER | FLUOROMETRY | MICRO GRAMS PER LITER | 130 | OBS | 1 OBS/WEEK | SURFACE | ACETONE EXTRACTION |
| AMINO ACIDS | WATER | COLUMN CHROMATOGRAPHY | NANOMOLES PER LITER | 130 | OBS | 1 OBS/WEEK | SURFACE | AUTOANALYZER, NINHYDRIN, SPECTROPHOTOMETRY, ION EXCHANGE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | CHROMATOGRAPHY |

000792 DISTRIBUTION OF AMMONIA NITROGEN IN THE LOWER YORK RIVER, VIRGINIA 

DATA COLLECTED: FEBRUARY 1961 TO APRIL 1961

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A REPORT OF 12 WEEKS AT SIX STATIONS IN THE LOWER YORK RIVER. SURFACE TO BOTTOM WATER SAMPLES WERE TESTED FOR TEMPERATURE, CHLORINITY, LIGHT EXTINCTION, NITRATE AND AMMONIA TO STUDY THE AMMONIA-NITROGEN DISTRIBUTION.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 72 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 25

CONTACT:
LIBRARIAN 703-642-2111 X19
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DMS | 6 | STATIONS | WEEKLY | | |
| TIME | EARTH | STATION TIME | YMDL | 72 | STATIONS | 6 STN/WEEK | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 144 | OBS | 6 STN/WEEK | SURFACE AND BOTTOM | |
| LIGHT EXTINCTION | WATER | UNKNOWN | LOG OF RATIO | 144 | OBS | 6 STN/WEEK | SURFACE AND BOTTOM | |
| CHLORINITY | WATER | TITRATION | PARTS PER THOUSAND | 144 | OBS | 6 STN/WEEK | SURFACE AND BOTTOM | MOHR |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICRO GRAM ATOMS PER LITER | 144 | OBS | 6 STN/WEEK | SURFACE AND BOTTOM | STRYCHNIDINE |
| AMMONIA | WATER | SPECTROPHOTOMETRY | MICRO GRAM ATOMS PER LITER | 144 | OBS | 6 STN/WEEK | SURFACE AND BOTTOM | NESSLERIZATION |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 144 | OBS | 6 STN/WEEK | SURFACE AND BOTTOM | |

000794

HYDROGRAPHIC, NUTRIENT, CHLOROPHYLL, SESTON AND CELL COUNT DATA FROM CHESAPEAKE BAY PLANKTON CRUISES

DATA COLLECTED: JANUARY 1960 TO JANUARY 1961

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A REPORT OF HYDROGRAPHIC, NUTRIENT, CHLOROPHYLL, SESTON AND CELL COUNT DATA COLLECTED AT 5 STATIONS IN THE CHESAPEAKE BAY VISITED BIWEEKLY FOR A YEAR.

DATA AVAILABILITY:
OPEN FILE, COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 120 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 20

CONTACT:
LIBRARIAN 703-642-2111 X16
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DMS | 5 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDH | 24 | STATIONS | 5 STN EVERY 2 WEEKS | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 250 | OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | |
| CHLORINITY | WATER | TITRATION | PARTS PER THOUSAND | 250 | OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | MOHR TITRATION |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 250 | OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | WINKLER TITRATION |
| LIGHT EXTINCTION | WATER | UNKNOWN | LOG OF RATIO | 250 | OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 250 | OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | STRYCHNIDINE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 250 OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | MOLYBDATE |
| ORGANIC PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 250 OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | MOLYBDATE |
| TOTAL CHLOROPHYL L | WATER | FLUOROMETRY | MILLIGRAMS PER LITER | 250 OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | |
| ORGANIC CARBON | SUSPENDED | DRY COMBUSTION/ GAS DISPLACEMENT | MILLIGRAMS PER LITER | 125 OBS | 5 STN EVERY 2 WEEKS | SURFACE | MEMBRANE FILTRATION |
| PARTICULATE INORGANIC MATTER | WATER | ASH WEIGHT | MILLIGRAMS PER LITER | 125 OBS | 5 STN EVERY 2 WEEKS | SURFACE | MEMBRANE FILTRATION |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBERS OF INDIVIDUALS PER MILLILITER | 250 OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | SEDGWICK-RAFTER MOUNTS |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | NUMBER OF SPECIES PER STATION | 250 OBS | 5 STN EVERY 2 WEEKS | SURFACE AND BOTTOM | SEDGWICK-RAFTER MOUNTS |

000801

**EDAPHIC FACTORS AND PRODUCTIVITY OF ESTUARINE MARSHES**
DATA COLLECTED: JUNE 1971 TO MAY 1972


RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, VIRGINIA, EASTERN SHORE, WACHAPREAGUE MARSH YORK RIVER, WARE AND CARTER CREEK MARSHES

ABSTRACT:
DATA ON THE EDAPHIC FACTORS AND PRODUCTIVITY OF 3 ESTUARINE MARSHES OF THE EASTERN SHORE OF VIRGINIA WERE COLLECTED AT 2 STATIONS MONTHLY FOR 10 MONTHS DURING 1972.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
2 STATIONS SAMPLED MONTHLY FOR 10 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIRGINIA INSTITUTE OF MARINE SCIENCE THESIS

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

090

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 2 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDL | 20 | STATIONS | 2 STN/MO | | |
| ORGANIC NITROGEN | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 400 | OBS | 2 STN/MO | 0 TO 8 CM INTEGRAL | KJELDAHL |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 400 | OBS | 2 STN/MO | 0 TO 8 CM INTEGRAL | MOLYBDATE BLUE |
| CALCIUM | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 400 | OBS | 2 STN/MO | 0 TO 8 CM INTEGRAL | |
| MAGNESIUM | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 400 | OBS | 2 STN/MO | 0 TO 8 CM INTEGRAL | |
| POTASSIUM | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 400 | OBS | 2 STN/MO | 0 TO 8 CM INTEGRAL | |
| PH | INTERSTITIAL | SPECIFIC ION ELECTRODE | PH UNITS | 400 | OBS | 2 STN/MO | 0 TO 8 CM INTEGRAL | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SALINITY | INTERSTITIAL | CONDUCTIVITY | PARTS PER THOUSAND | 400 | OBS | 2 STN/MO | 0 TO 8 CM INTEGRAL | |
| ORGANIC NITROGEN IN BIO MATERIAL | LAND | SPECTROPHOTOMETRY | MICROGRAMS PER GRAM DRY WEIGHT | 400 | OBS | 2 STN MO | | KJELDAHL, MARSH GRASS |
| PHOSPHORUS IN BIO MATERIAL | LAND | SPECTROPHOTOMETRY | MICROGRAMS PER GRAM DRY WEIGHT | 400 | OBS | 2 STN/MO | | MOLYBDATE BLUE, MARSH GRASS |
| BIOMASS OF BENTHIC PLANTS | LAND | CROPPING | GRAMS PER METER SQUARE PER YEAR PER SPECIES | 13 | OBS | 2 STN/MO | | MARSH GRASS |
| COUNT OF BENTHIC PLANTS | LAND | VISUAL | STEMS PER SQUARE METER AREA | 13 | OBS | 2 STN/MO | | MOLYBDATE BLUE, MARSH GRASS |

091

RAPPAHANNOCK RIVER SURVEY
DATA COLLECTED: MARCH 1951 TO OCTOBER 1951

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, RAPPAHANNOCK RIVER

ABSTRACT:
A REPORT OF 16 STATIONS IN THE RAPPAHANNOCK RIVER STUDIED EACH MONTH FOR 8 MONTHS IN 1951. AT EACH STATION THE FISH AND PLANKTON POPULATION WERE SURVEYED AND SOME OF THE PHYSICAL/CHEMICAL FACTORS OF THE WATER ENVIRONMENT WERE MEASURED. DATA BASE CONTAINS COMPARATIVE DATA FOR PAMUNKEY AND MATTAPONI RIVERS.
(16 STATIONS 22 CRUISES, DATA BASE CONTAINS COMPARATIVE DATA FOR PAMUNKEY AND MATTAPONI RIVERS, VA )

DATA AVAILABILITY:
OPEN FILE, COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
16 STATIONS REPEATED FOR 8 MONTHS IN ONE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 6

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

092

GRID LOCATOR (LAT):
730776 730787

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DMS | 16 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDHL | 128 | STATIONS | 16 STN/MO | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER OF SPECIES PER STATION BY MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH | 128 | OBS | 16 STN/MO | | |
| SPECIES DETERMINATION OF DEMERSAL | WATER | KEY | NUMBER OF SPECIES PER STATION BY | 128 | OBS | 16 STN/MO | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| FISH | | | MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH | | | | | |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBERS OF INDIVIDUALS PER STATION | 128 | OBS | 16 STN/MO | | |
| COUNT OF DEMERSAL FISH | WATER | VISUAL | NUMBERS OF INDIVIDUALS PER STATION | 128 | OBS | 16 STN/MO | | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER STATION BY MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH | 128 | OBS | 16 STN/MO | | |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | NUMBER OF SPECIES PER STATION. BY MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH | 128 | OBS | 16 STN/MO | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 700 | OBS | 16 STN/MO | SURFACE AND BOTTOM | WINKLER TITRATION |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 700 | OBS | 16 STN/MO | SURFACE AND BOTTOM | |
| SALINITY | WATER | TITRATION | PARTS PER THOUSAND | 700 | OBS | 16 STN/MO | SURFACE AND BOTTOM | MOHR TITRATION |
| SULFATE | WATER | NEPHELOMETRY | PARTS PER MILLION | 700 | OBS | 16 STN/MO | SURFACE AND BOTTOM | HELIGE TURBIDIME TER |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 700 | OBS | 16 STN/MO | SURFACE AND BOTTOM | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | CENTIMETERS | 128 | OBS | 16 STN/MO | | |

093

000822 STUDY OF CHANNEL SEDIMENTS IN THE JAMES AND ELIZABETH RIVERS 
DATA COLLECTED: JUNE 1971 TO AUGUST 1971
RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES AND ELIZABETH RIVERS

ABSTRACT:
9 CHEMICAL ANALYSES WERE PERFORMED ON SEDIMENT SAMPLES TAKEN IN 15 FT CORES AT 227 MID CHANNEL LOCATIONS ALONG THE JAMES AND ELIZABETH RIVERS, FROM JUNE THROUGH AUGUST 1971. THE RESULTS OF THE STUDY ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS, AND HAVE BEEN PUBLISHED IN THE CORPS OF ENGINEERS REPORT, CONTRACT NO. DACW 65-71-C-0047.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
5400 OBS

FUNDING:
CORP OF ENGINEERS REPORT CONTRACT NO. DACW 65-71-C-0047

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT HUGGETT 703-642-2111 X83
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION, RIVER MILES | 227 | STATIONS | | | CENTER OF CHANNEL, BLACK MARKER, RED MARKER |
| TIME | EARTH | STATION TIME | YMDL | 227 | STATIONS | | | |
| TOTAL SOLIDS | SEDIMENT | DRY WEIGHT | PERCENT | 600 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | |
| VOLATILE TOTAL SOLIDS | SEDIMENT | ASH WEIGHT | PERCENT | 600 | OBS | | TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| CHEMICAL OXYGEN DEMAND | SEDIMENT | DIGESTION | PERCENT | 600 | OBS | | CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND | |
| ORGANIC NITROGEN | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 600 | OBS | | CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND | KJELDAHL |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 600 | OBS | | CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND | MOLYBDATE |
| COPPER | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 600 | OBS | | CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND | NITRIC ACID DIGESTION |
| ZINC | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 600 | OBS | | CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND | NITRIC ACID DIGESTION |
| LEAD | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 600 | OBS | | CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND | NITRIC ACID DIGESTION |
| MERCURY | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 600 | OBS | | CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY | SULFURIC ACID DIGESTION |

000823

ENVIRONMENTAL IMPACT OF PROPOSED MARINA IN YORK RIVER STATE PARK
DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, TASKINAS CREEK

ABSTRACT:
BIOMASS AND ANNUAL YIELD PER ACRE, SPECIES DETERMINATION AND BODY LENGTH WERE RECORDED FOR BENTHIC PLANTS IN THE TASKINAS CREEK, VIRGINIA DURING OCTOBER 1972. WATER SAMPLES WERE ANALYZED FOR SALINITY AND TOTAL ORGANIC CARBON, AND THE WATER TRANSPORT RATE OF THE CREEK WAS MEASURED. THE RESULTS OF THE STUDY ARE AVAILABLE ON DATA SHEETS FROM VIMS, ALONG WITH COMMENTS ON WILDLIFE USEAGE.
(DATA CONTAINS COMMENTS ON WILDLIFE USAGE)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
62 OBS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 1 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 1 | STATIONS | | | |
| SPECIES DETERMINATION OF BENTHIC PLANTS | LAND | KEY | NUMBER OF SPECIES PER MARSHLAND AREA | 1 | OBS | | | MARSH PLANTS |
| BIOMASS OF BENTHIC PLANTS | LAND | DRY WEIGHT | TONS PER ACRE | 1 | OBS | | | MARSH PLANTS |
| YIELD OF BENTHIC PLANTS | LAND | CROPPING | TONS PER ACRE PER YEAR | 1 | OBS | | | MARSH PLANTS |
| LENGTH OF BENTHIC PLANTS | LAND | DIRECT | METERS | 1 | OBS | | | MARSH PLANTS |
| ORGANIC CARBON | WATER | WET COMBUSTION/ | MG PER LITER | 28 | OBS | | FOURTEEN | TWO TIDAL |

096

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | INFRARED SPECTROMETRY | | | | | HOURLY SAMPLES PER TIDAL CYCLE | CYCLES SAMPLED |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 28 | OBS | | FOURTEEN HOURLY SAMPLES PER TIDAL CYCLE | TWO TIDAL CYCLES SAMPLED |
| WATER TRANSPORT | WATER | IMPELLOR METER | CUBIC METERS PER TIDAL CYCLE | 2 | OBS | | | TWO TIDAL CYCLES SAMPLED |

DATA COLLECTED: MAY 1972 TO SEPTEMBER 1972
RECEIVED: MAY 01, 1976

PROJECTS:
ANADROMOUS ALOSIDS

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
THE PRODUCTIVITY AND NUTRIENT ANALYSIS OF THE JAMES RIVER NURSERY GROUNDS WERE STUDIED AT THE SURFACE, MID-DEPTH, AND BOTTOM FOR 5 MONTHS. AT 5 LOCATIONS SAMPLED WEEKLY TO BIWEEKLY. THE STUDY WAS PART OF THE PROGRAM FOR BIOLOGY AND UTILIZATION OF ANADROMOUS ALOSIDS. PHYSICAL/CHEMICAL PARAMETERS WERE MEASURED AT EACH STATION. COBB NETS, PLANKTON NETS AND JUDAY FIXED VOLUME TRAPS WERE USED FOR BIOLOGY SAMPLING.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 20 PARAMETERS AT 5 STATIONS MEASURED WEEKLY TO BIWEEKLY FOR 5 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
ANNUAL REPORTS SENT TO NATIONAL MARINE FISHERIES SERVICE, DEPT OF INTERIOR, VIRGINIA MARINE RESOURCES COMMISSION VIMS LIBRARY

CONTACT:
WALTER HOAGMAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION, RIVER MILE | 5 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 243 | STATIONS | WEEKLY TO BIWEEKLY | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 243 | OBS | WEEKLY TO BIWEEKLY | SURFACE, MID DEPTH, BOTTOM | |
| BATHYMETRY | WATER | UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC | METERS | 5 | OBS | | | |
| DISSOLVED | WATER | TITRATION | MILLIGRAMS PER | 243 | OBS | WEEKLY TO | SURFACE, MID | WINKLER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| OXYGEN GAS | | | LITER | | | BIWEEKLY | DEPTH, BOTTOM | |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MILLIGRAMS PER LITER, FIXED PER CUBIC METER PER HOUR | 60 | OBS | WEEKLY TO BIWEEKLY | SURFACE | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 243 | OBS | WEEKLY TO BIWEEKLY | SURFACE, MID DEPTH, BOTTOM | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MILLIGRAMS PER LITER | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | |
| AMMONIA | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | |
| ORGANIC NITROGEN | DISSOLVED | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | KJELDAHL |
| NITRATE | WATER | AUTOANALYZER | MICROGRAMS ATOMS/LITER | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | CADMIUM REDUCTION |
| NITRITE | WATER | AUTOANALYZER | MICROGRAMS ATOMS/LITER | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | CADMIUM REDUCTION |
| PHOSPHATE | WATER | AUTOANALYZER | MICROGRAMS ATOMS/LITER | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | |
| ORTHOPHOSPHATE | WATER | AUTOANALYZER | MICROGRAMS ATOMS/LITER | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | |
| ORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | PARTS PER MILLION | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | |
| INORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | PARTS PER MILLION | 160 | OBS | WEEKLY TO BIWEEKLY | SURFACE, BOTTOM | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER OF SPECIES PER TRAWL, NUMBER OF INDIVIDUALS PER SPECIES PER TRAWL | 180 | OBS | WEEKLY TO BIWEEKLY | SURFACE AND MID WATER | 5 BY 5 FOOT COBB NET |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER OF INDIVIDUALS PER TRAWL | 300 | OBS | WEEKLY TO BIWEEKLY | SURFACE AND MID WATER | 180 OBSERVATIONS USED 5 BY 5 FOOT COBB NETS, 60 OBSERVATIONS CAPTURED LARVAL ALOSIDS WITH A ONE METER 376 MICRON MESH PLANKTON NET AND 60 OBSERVATIONS USED A JUDAY FIXED VOLUME TRAP |

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PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| LENGTH OF PELAGIC FISH | WATER | FORK LENGTH | MILLIMETERS | 180 | OBS | WEEKLY TO BIWEEKLY | SURFACE AND MID WATER | UP TO 50 OF EACH SPECIES PER TRAWL |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 80 | OBS | WEEKLY TO BIWEEKLY | | |
| LIGHT EXTINCTION | WATER | TRANSMISSOMETER LOWERING | PERCENT OF TRANSMISSION | 80 | OBS | WEEKLY TO BIWEEKLY | | |

DATA COLLECTED: MAY 1971 TO OCTOBER 1971
RECEIVED: MAY 01, 1976

PROJECTS:
ANADROMOUS ALOSIDS

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, POTOMAC RIVER, RAPPAHANNOCK RIVER, PAMUNKEY RIVER, MATTAPONI RIVER

ABSTRACT:
THE COMMUNITY STRUCTURE AND TROPHIC DYNAMICS OF ALOSID NURSERIES WERE STUDIED AT THE SURFACE AND BOTTOM IN THE LOWER RIVERS IN THE CHESAPEAKE BAY FOR 6 MONTHS. THE STUDY WAS PART OF THE PROGRAM OF BIOLOGY AND UTILIZATION OF ANADRAMOUS FISH. PHYSICAL/CHEMICAL PARAMETERS WERE ALSO STRESSED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
PUNCHED CARDS FOR 15 STATIONS SAMPLED FOR 6 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS SENT TO NATIONAL MARINE FISHERIES SERVICE, VIRGINIA MARINE FISHERIES COMMISSION, VIMS LIBRARY

CONTACT:
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VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730767 730776 730787 730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATIONS | 15 | STATIONS | MONTHLY | | EACH STATION OCCUPIED 6 TIMES |
| TIME | EARTH | STATION TIME | YMDHL | 90 | STATIONS | MONTHLY | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 270 | OBS | MONTHLY | SURFACE MID DEPTH AND BOTTOM | |
| BATHYMETRY | WATER | UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC | METERS | 90 | OBS | MONTHLY | | |
| DISSOLVED | WATER | TITRATION | MG PER LITER | 270 | OBS | MONTHLY | SURFACE MID | WINKLER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| OXYGEN GAS | | | | | | DEPTH AND BOTTOM | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 90 OBS | MONTHLY | | |
| LIGHT EXTINCTION | WATER | TRANSMISSOMETER LOWERING | PER CENT TRANSMISSION | 90 OBS | MONTHLY | | |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MG CARBON FIXED PER CUBIC METER PER HOUR | 90 OBS | MONTHLY | SURFACE | |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 180 OBS | MONTHLY | SURFACE AND BOTTOM | MOLYBDATE |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 180 OBS | MONTHLY | SURFACE AND BOTTOM | CADMIUM REDUCTION |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MG PER LITER | 180 OBS | MONTHLY | SURFACE AND BOTTOM | ACETONE EXTRACTION |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER OF INDIVIDUALS PER TRAWL | 270 OBS | MONTHLY | SURFACE MID. DEPTH AND BOTTOM | 90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING |
| COUNT OF DEMERSAL FISH | WATER | VISUAL | NUMBER OF INDIVIDUALS PER TRAWL | 270 OBS | MONTHLY | SURFACE MID DEPTH AND BOTTOM | 90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER OF SPECIES PER TRAWL PER STATION PER DEPTH STRATA, NUMBER OF INDIVIDUALS PER SPECIES PER SAMPLING EFFORT | 270 OBS | MONTHLY | SURFACE MID DEPTH AND BOTTOM | 90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | NUMBER OF SPECIES PER TRAWL PER STATION PER DEPTH STRATA, | 270 OBS | MONTHLY | SURFACE MID DEPTH AND BOTTOM | 90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | NUMBER OF INDIVIDUALS PER SPECIES PER SAMPLING EFFORT | | | | | AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING |
| LENGTH OF PELAGIC FISH | WATER | FORK LENGTH | MILLIMETERS | 270 | OBS | MONTHLY | SURFACE MID DEPTH AND BOTTOM | UP TO 50 INDIVIDUALS SAMPLED OF EACH SPECIES PER TRAWL |
| LENGTH OF DEMERSAL FISH | WATER | FORK LENGTH | MILLIMETERS | 270 | OBS | MONTHLY | SURFACE MID DEPTH AND BOTTOM | UP TO 50 INDIVIDUALS SAMPLED OF EACH SPECIES PER TRAWL |
| STOMACH CONTENT ANALYSIS OF PELAGIC FISH | WATER | VISUAL | PERCENT SPECIES COMPOSITION OF INGESTED ZOOPLANKTON | 270 | OBS | MONTHLY | SURFACE MID DEPTH AND BOTTOM | UP TO 10 INDIVIDUALS SAMPLED PER TRAWL OF EACH ALOSA SP, DATA AVAILABLE ON APPROX 500 ALOSIDS |
| COUNT OF ZOOPLANKTON | WATER | FIXED, UNSTAINED, WHOLE | NUMBER OF ZOOPLANKTERS PER CUBIC METER AND NUMBER OF ZOOPLANKTERS PER TRAWL | 180 | OBS | MONTHLY | 0 TO 10 FT | 1 METER DIAMETER CONE SHAPED NET, 376 MICRON MESH, 5 MIN TRAWL AND WATER PUMPED INTO SLEEVE NETS, 202 MICRON MESH, 35 MICRON MESH AT EACH STATION |

DATA COLLECTED: JUNE 1971 TO AUGUST 1971

RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, VIRGINIA THIMBLE SHOAL CHANNEL, NEWPORT NEWS CHANNEL, NORFOLK HARBOR CHANNEL, RAPPAHANNOCK RIVER CHANNEL, CAPE HENRY SHOAL CHANNEL, YORK RIVER SPIT CHANNEL, YORK RIVER ENTRANCE CHANNEL

ABSTRACT:
A STUDY OF CHANNEL SEDIMENTS IN 7 LOWER CHESAPEAKE BAY RIVERS WAS MADE FROM THE SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY AND SENT IN A REPORT TO THE CORPS OF ENGINEERS.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 9 PARAMETERS AT 7 STATIONS - 200 OBS/PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORT TO CORPS OF ENGINEERS

CONTACT:
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VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP POSITIONS | 7 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 7 | STATIONS | | | |
| TOTAL SOLIDS | SEDIMENT | DRY WEIGHT | PERCENT | 200 | OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | |
| VOLATILE TOTAL SOLIDS | SEDIMENT | ASH WEIGHT | PERCENT | 200 | OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| CHEMICAL OXYGEN DEMAND | SEDIMENT | DIGESTION | PERCENT | 200 OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | |
| ORGANIC NITROGEN | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 200 OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | KJELDAHL |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | PARTS PER MILLION | 200 OBS | | SURFACE TO FIFTEEN.FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | MOLYBDATE |
| COPPER | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 200 OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | NITRIC ACID DIGESTION |
| ZINC | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 200 OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | NITRIC ACID DIGESTION |
| LEAD | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 200 OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | NITRIC ACID DIGESTION |
| MERCURY | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 200 OBS | | SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY | SULFURIC ACID DIGESTION |

DISTRIBUTION AND STRUCTURE OF BENTHIC COMMUNITIES ALONG AN ESTUARINE GRADIENT,
THE CHESAPEAKE-YORK-PAMUNKEY ESTUARY
DATA COLLECTED: AUGUST 1969 TO MAY 1970

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, PAMUNKEY RIVER

ABSTRACT:
STUDIES OF THE BENTHIC COMMUNITIES IN AN ESTUARY IN RELATION TO THE SALINITY GRADIENT, DISSOLVED OXYGEN LEVELS, TEMPERATURE AND SEDIEMENT. BENTHIC COMMUNITY STRUCTURE ANALYSIS BY USE OF COMPUTER ORDINATION AND CLA SIFICATION.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
10 STATIONS SAMPLED AT 3 MONTH INTERVALS FOR ONE YEAR. THREE REPLICATES AT EACH STATION, APPROX 150 SAMPLES ANALYZED.

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS DISSERTATION

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GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 10 | STATIONS | 4 TIMES PER YEAR | | |
| TIME | EARTH | STATION TIME | YMDL | 80 | STATIONS | 4 TIMES PER YEAR | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 80 | OBS | 4 TIMES PER YEAR | SURFACE AND BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 80 | OBS | 4 TIMES PER YEAR | SURFACE AND BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 80 | OBS | 4 TIMES PER YEAR | SURFACE AND BOTTOM | |
| BATHYMETRY | WATER | LEAD LINE | FEET | 10 | OBS | | | |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS PER SAMPLE | 150 | OBS | 4 TIMES PER YEAR | BOTTOM | THREE REPLICATES AT EACH STATION VAN |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | VEEN GRAB .07 MSQ |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES | 150 | OBS | 4 TIMES PER YEAR | BOTTOM | THREE REPLICATES AT EACH STATION VAN VEEN GRAB .07 MSQ |
| DIVERSITY INDEX OF BENTHIC ANIMALS | BOTTOM | SHANNON-WEAVER | NUMBERS | 150 | OBS | 4 TIMES PER YEAR | BOTTOM | SPECIES RICHNESS, SPECIES EVENNESS, COMPUTER ORDINATION AND CLASSIFICATION |
| SIZE ANALYSIS | SEDIMENT | SIEVE | PERCENT SAND, SILT AND CLAY | 40 | OBS | 4 TIMES PER YEAR | BOTTOM | ALSO SETTLING/ VISUAL METHOD |
| ORGANIC CARBON | WATER | WET COMBUSTION/ TITRATION | PERCENT | 40 | OBS | 4 TIMES PER YEAR | BOTTOM | |

THE EFFECTS OF MORGANTOWN STEAM ELECTRIC STATION OPERATIONS ON ORGANISMS PUMPED THROUGH A COOLING SYSTEM

DATA COLLECTED: SEPTEMBER 1972 TO PRESENT

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, POTOMAC RIVER, MARYLAND, MORGANTOWN

ABSTRACT:
EFFECTS ON ORGANISMS PUMPED THROUGH A COOLING SYSTEM AT THE MORGANTOWN, MARYLAND STEAM ELECTRIC STATION. FOLLOWING PARAMETERS WERE MEASURED: TEMPERATURE, SALINITY, CHLORINITY, DISSOLVED OXYGEN, TOTAL CHLOROPHYLL, PHOTOSYNTHETIC RATE.

DATA AVAILABILITY:
REPORTS SENT TO MARYLAND DEPT OF NATURAL RESOURCES: SEASONAL AND MANIPULATED EFFORTS OF POWER PLANT OPERATIONS

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
OBSERVATIONS MADE AT 10 DIFFERENT STATIONS ON A QUARTERLY BASIS WITH 480 SAMPLES OF ORGANISMS OBTAINED.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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NATURAL RESOURCES INSTITUTE
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PRINCE FREDERICK MARYLAND USA 20678

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 10 | STATIONS | QUARTERLY | | |
| TIME | EARTH | STATION TIME | YMDL | 40 | STATIONS | QUARTERLY | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 120 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 120 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | |
| CHLORINITY | WATER | TITRATION | PARTS PER MILLION | 120 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MILLIGRAMS PER LITER | 120 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | |
| TOTAL CHLOROPHYL L | WATER | FLUOROMETRY | MILLIGRAMS PER LITER | 480 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | 24 HOUR STUDIES EVERY 2 TO 3 HOURS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER OF CELLS PER LITER | 480 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | GREATER THAN 10 MICRONS |
| COUNT OF ZOOPLANKTON | WATER | FIXED, STAINED, WHOLE | NUMBER OF INDIVIDUALS PER CUBIC METER | 480 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | |
| COUNT OF ZOOPLANKTON | WATER | VISUAL | NUMBER OF INDIVIDUALS PER 100 CUBIC METERS | 480 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | MACROPLANKTON |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MILLIGRAMS PER LITER, FIXED CUBIC METER PER HOUR | 480 | OBS | QUARTERLY | SURFACE, MID, BOTTOM | MACROPLANKTON |

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ZOOPLANKTON AND ENVIRONMENTAL CHARACTERISTICS OF THE PATUXENT RIVER ESTUARY
DATA COLLECTED: JULY 1963 TO DECEMBER 1967

PAGE 01
RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., CAOSTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:
SURVEY OF THE ZOOPLANKTON IN THE PATUXENT RIVER, MARYLAND IN RELATION TO BIOTIC AND ABIOTIC FACTORS. COMMUNITY STRUCTURE ANALYSIS ON ZOOPLANKTON INCLUDE DIVERSITY, EVENNESS, RICHNESS AND INFORMATION THEORY.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
8 STATIONS SAMPLED APPROX BIWEEKLY. DATA INCLUDES 960 MEASUREMENTS OF ABIOTIC PARAMETERS. 1440 WATER SAMPLES PROCESSED

FUNDING:

INVENTORY:

PUBLICATIONS:
ZOOPLANKTON AND THE ENVIRONMENTAL CHARACTERISTICS OF THE PATUXENT RIVER ESTUARY, CHES SCI, 9(2)

CONTACT:
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GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 8 STATIONS | BIWEEKLY | | |
| TIME | EARTH | STATION TIME | YMDL | 480 STATIONS | BIWEEKLY | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 960 OBS | BIWEEKLY | SURFACE, BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 960 OBS | BIWEEKLY | SURFACE, BOTTOM | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 960 OBS | BIWEEKLY | SURFACE, BOTTOM | AS SILICA DIOXIDE |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MILLIGRAMS PER CUBIC METER | 960 OBS | BIWEEKLY | SURFACE, BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 960 OBS | BIWEEKLY | SURFACE, BOTTOM | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 960 OBS | BIWEEKLY | SURFACE, BOTTOM | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SILICATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 960 | OBS | BIWEEKLY | SURFACE, BOTTOM | |
| COUNT OF ZOOPLANKTON | WATER | FIXED, STAINED, WHOLE | NUMBER OF INDIVIDUALS PER CUBIC METER | 1440 | OBS | BIWEEKLY | | OBLIQUE TOWS, 1/2 METER NET, 370 MICRON MESH, 5 MINUTE SURFACE, 5 MINUTE BOTTOM, 5 MINUTE MID DEPTH |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER CUBIC METER, NUMBER OF INDIVIDUALS PER SPECIES | 1440 | OBS | BIWEEKLY | | OBLIQUE TOWS, 1/2 METER NET, 370 MICRON MESH, 5 MINUTE SURFACE, 5 MINUTE BOTTOM, 5 MINUTE MID DEPTH |
| VOLUME DETERMINATION OF ZOOPLANKTON | WATER | DISPLACEMENT | VOLUME PER CUBIC METER | 1440 | OBS | BIWEEKLY | | OBLIQUE TOWS, 1/2 METER NET, 370 MICRON MESH, 5 MINUTE SURFACE, 5 MINUTE BOTTOM, 5 MINUTE MID DEPTH |
| DIVERSITY INDEX OF ZOOPLANKTON | WATER | SHANNON-WEAVER | VOLUME PER CUBIC METER | 1440 | OBS | BIWEEKLY | | EVENNESS INDEX (I) COMPUTED, SPECIES RICHNESS (S-1), (D) INFORMATION THEORY |

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000941 PRIMARY PRODUCTIVITY STUDIES IN THE POTOMAC RIVER
DATA COLLECTED: MARCH 1971 TO PRESENT

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON THE PRODUCTIVITY RATES OF THE NANNOPLANKTON (SAMPLED MARCH, MAY, JUNE, AUGUST, OCTOBER, NOVEMBER, 2 DAYS EACH MONTH)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
3 STATIONS, 216 MEASUREMENTS OF ENVIRONMENTAL PARAMETERS, 36 SAMPLES PROCESSED FOR PHYTOPLANKTON

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS SENT TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

CONTACT:
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BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730787 730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 3 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 216 | STATIONS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 216 | OBS | | SURFACE 1, 2, 3, 4, 5 METERS | WINKLER |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 500 | OBS | | SURFACE AND BOTTOM AT 1 METER INTERVALS | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 500 | OBS | | SURFACE AND BOTTOM AT 1 METER INTERVALS | |
| PHOTOSYNTHETIC | WATER | OXYGEN DETERMINAT | MILLIGRAMS OF | 216 | OBS | | SURFACE 1, 2, | COMPUTED, GROSS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| RATE | | ION | OXYGEN PER CUBIC METER PER HOUR | | | 3, 4, 5 METERS | PRODUCTION, NET PRODUCTION AND RESPIRATION RATES, INTEGRAL PHOTOSYNTHETIC RATES COMPUTED |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 216 OBS | | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL B | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 216 OBS | | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL C | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 216 OBS | | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CAROTENOIDS | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 216 OBS | | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER OF INDIVIDUALS PER MILLILITER | 36 OBS | | SURFACE | SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES | 36 OBS | | SURFACE | SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL |
| NORMAL INCIDENCE RADIATION | ATMOSPHERE | PYRHELIOMETER | LANGLEYS | 36 OBS | | SEA LEVEL | |
| LIGHT ATTENUATIO N | WATER | IN SITU TRANSMISSOMETER | PERCENT TRANSMISSION | 216 OBS | | SURFACE 1, 2, 3, 4, 5 METERS | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 36 OBS | | | |

PRIMARY PRODUCTIVITY STUDIES IN THE CHESAPEAKE BAY
DATA COLLECTED: APRIL 1971 TO PRESENT

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CALVERT CLIFFS AREA

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY IN THE WATERS NEAR THE CALVERT CLIFFS POWER STATION; RESPIRATION RATES COMPUTED. VARIOUS BIOTIC AND ABIOTIC PARAMETERS MEASURED. SPECIAL EMPHASIS ON PRODUCTIVITY OF NANNOPLANKTON (STATION OCCUPIED APRIL, SEPTEMBER, DECEMBER )

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
3 STATION SAMPLED 6 TIMES PER YEAR. 12 SAMPLES PROCESSED FOR PHYTOPLANKTON IDENTIFICATION

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 3 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 60 | STATIONS | 6 TIMES PER YEAR | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 60 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | WINKLER |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 96 | OBS | 6 TIMES PER YEAR | SURFACE AND BOTTOM AT 1 METER INTERVALS | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 96 | OBS | 6 TIMES PER YEAR | SURFACE AND BOTTOM AT 1 METER INTERVALS | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PHOTOSYNTHETIC RATE | WATER | OXYGEN DETERMINATION | MILLIGRAMS OF OXYGEN PER CUBIC METER PER HOUR | 60 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | COMPUTED GROSS PRODUCTION, NET PRODUCTION AND RESPIRATION RATES, INTEGRAL PHOTOSYNTHETIC RATES COMPUTED |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 96 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL B | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 96 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL C | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 96 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CAROTENOIDS | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 96 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER OF INDIVIDUALS PER MILLILITER | 60 | OBS | 6 TIMES PER YEAR | SURFACE | SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL |
| SPECIES DETERMINATION OF PHYTOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES | 60 | OBS | 6 TIMES PER YEAR | SURFACE | SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL |
| NORMAL INCIDENCE RADIATION | ATMOSPHERE | PYRHELIOMETER | LANGLEYS | 12 | OBS | 6 TIMES PER YEAR | SEA LEVEL | |
| LIGHT ATTENUATION | WATER | IN SITU TRANSMISSOMETER | PERCENT TRANSMISSION | 12 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 12 | OBS | 6 TIMES PER YEAR | SURFACE 1, 2, 3, 4, 5 METERS | |

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DATA COLLECTED: JUNE 1971 TO PRESENT

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON PRODUCTIVITY RATES OF THE NANNOPLANKTON. (SAMPLED JULY, AUGUST, SEPTEMBER, OCTOBER)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
3 STATIONS, 100 MEASUREMENTS OF ENVIRONMENTAL PARAMETERS, 24 SAMPLES PROCESSED FOR PHYTOPLANKTON

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 3 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 24 | STATIONS | | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 100 | OBS | | SURFACE, 1, 2, 3, 4, 5 METERS | WINKLER |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 200 | OBS | | SURFACE AND BOTTOM AT 1 METER INTERVALS | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG-C | 200 | OBS | | SURFACE AND BOTTOM AT 1 METER INTERVALS | |
| PHOTOSYNTHETIC | WATER | OXYGEN DETERMINAT | MILLIGRAMS OF | 100 | OBS | | SURFACE, 1, | COMPUTED, GROSS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| RATE | | ION | OXYGEN PER CUBIC METER PER HOUR | | | | 2, 3, 4, 5 METERS | PRODUCTION, NET PRODUCTION, AND RESPIRATION RATES, INTEGRAL PHOTOSYNTHETIC RATES COMPUTED |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 100 | OBS | | SURFACE, 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL B | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 100 | OBS | | SURFACE, 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL C | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 100 | OBS | | SURFACE, 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| CAROTENOIDS | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 100 | OBS | | SURFACE, 1, 2, 3, 4, 5 METERS | ACETONE EXTRACTION |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER OF INDIVIDUALS PER MILLILITER | 24 | OBS | | SURFACE | SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL |
| SPECIES DETERMINATION OF PHYTOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES | 24 | OBS | | SURFACE | SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL |
| NORMAL INCIDENCE RADIATION | ATMOSPHERE | PYRHELIOMETER | LANGLEYS | 24 | OBS | | SEA LEVEL | |
| LIGHT ATTENUATION | WATER | IN SITU TRANSMISSOMETER | PERCENT TRANSMISSION | 100 | OBS | | SURFACE, 1, 2, 3, 4, 5 METERS | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 24 | OBS | | | |

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PRIMARY PRODUCTIVITY IN THE AREA OF THE CALVERT CLIFFS OUTFALL
DATA COLLECTED: OCTOBER 1971 TO PRESENT



RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CALVERT CLIFFS

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON THE PRODUCTIVITY RATES OF THE NANNOPLANKTON.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
1 STATION, 24 MEASUREMENTS OF ENVIRONMENTAL PARAMETERS, 48 SAMPLES PROCESSED FOR PHYTOPLANKTON

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS SENT TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 1 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDL | 24 | STATIONS | MONTHLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 48 | OBS | MONTHLY | SURFACE, BOTTOM | WINKLER |
| BATHYMETRY | WATER | LEAD LINE | METERS | 1 | OBS | | | |
| PHOTOSYNTHETIC RATE | WATER | OXYGEN DETERMINAT ION | MILLIGRAMS OF OXYGEN PER CUBIC METER PER HOUR | 48 | OBS | MONTHLY | SURFACE, BOTTOM | COMPUTED NET AND GROSS PHOTOSYNTHESIS AND RESPIRATION RATES |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 48 | OBS | MONTHLY | SURFACE, BOTTOM | |
| CAROTENOIDS | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 48 | OBS | MONTHLY | SURFACE, BOTTOM | |
| COUNT OF | WATER | COUNTING CHAMBER | NUMBER OF | 48 | OBS | MONTHLY | SURFACE, | EMPHASIS ON |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| PHYTOPLANKTON | | | INDIVIDUALS PER MILLILITER | | | BOTTOM | NANNOPLANKTON, PALMER CELL |
| SPECIES DETERMINATION OF PHYTOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER SAMPLE NUMBER OF INDIVIDUALS PER SPECIES | 48 OBS | MONTHLY | SURFACE, BOTTOM | EMPHASIS ON NANNOPLANKTON, PALMER CELL |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 48 OBS | | SURFACE, BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 48 OBS | | SURFACE, BOTTOM | |
| LIGHT ATTENUATION | WATER | IN SITU TRANSMISSOMETER | PERCENT OF TRANSMISSION | 24 OBS | | SURFACE, BOTTOM | |
| NORMAL INCIDENCE RADIATION | ATMOSPHERE | PYRHELIOMETER | LANGLEYS | 24 OBS | | SEA LEVEL | |
| SECCHI DISC DEPTH | WATER | AVERACE DEPTH | METERS | 24 OBS | | | |

HYDROGRAPHIC, CHEMICAL, AND BACTERIOLOGICAL SURVEY
DATA COLLECTED: OCTOBER 1969 TO PRESENT

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA

ABSTRACT:
HYDROGRAPHIC, CHEMICAL, AND BACTERIOLOGICAL SURVEY OF PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA, MARYLAND

DATA AVAILABILITY:
NOT ALL STATIONS AT SURFACE AND BOTTOM FOR HEAVY METALS. METALS ARE EXAMINED AT SURFACE AND BOTTOM ON CHESAPEAKE BAY AND POTOMAC RIVER, SURFACE ONLY ON PATUXENT RIVER

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
38 PARAMETERS MEASURED MONTHLY

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730787 730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 16 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDL | 768 | STATIONS | MONTHLY | | |
| IRON | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| MANGANESE | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| SODIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| POTASSIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| COPPER | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| LEAD | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| ZINC | WATER | ATOMIC ABSORPTION | PARTS PER | 768 | OBS | MONTHLY | SURFACE AND | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | SPECTROMETRY | MILLION | | | BOTTOM | |
| CHROMIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| COBALT | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| CADMIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| NICKEL | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| STRONTIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| BORON | WATER | COLORIMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | CARMINE DYE |
| DEPTH | WATER | WIRE LENGTH | METERS | 768 OBS | MONTHLY | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| PH | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| SALINITY | WATER | TITRATION | PARTS PER THOUSAND | 768 OBS | MONTHLY | SURFACE AND BOTTOM | MOHR |
| CHLORIDE | WATER | TITRATION | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | MOHR |
| CALCIUM | WATER | TITRATION | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| SILICATE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | AMMONIUM MOLYBDATE |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | .KJELDAHL NITROGEN S-WATER M-TITRATION U-PARTS PER MILLION T-OBS Q-768 F-MONTHLY H-SURFACE AND BOTTOM R-DISTILLATION, AUTOANALYZER |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | WINKLER |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | 5 DAY STABILITY METHOD |
| TOTAL CARBON DIOXIDE | WATER | CALCULATED | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| WEATHER | AIR | VISUAL | GENERAL OBSERVATIONS | 768 OBS | MONTHLY | | CBI DATA REPORT 18 REF 54-5 |
| MAGNESIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | |
| SULFATE | WATER | NEPHELOMETRY | PARTS PER MILLION | 768 OBS | MONTHLY | SURFACE AND BOTTOM | BARIUM SULFATE |
| NITRITE | WATER | SPECTROPHOTOMETRY | PARTS PER | 768 OBS | MONTHLY | SURFACE AND | ALPHA NAPTHLAMIN |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | MILLION | | | | BOTTOM | E |
| NITRATE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | CADMIUM REDUCTION |
| AMMONIA | WATER | TITRATION | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | DISTILLATION, AUTOANALYZER |
| COUNT OF MICROBIOTA | WATER | FILTRATION | MILLIGRAMS PER LITER | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | BACTERIAL COUNT |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| CARBONATE ION | WATER | CALCULATED | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| BICARBONATE ION | WATER | CALCULATED | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| CARBONATE ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| HARDNESS | WATER | EDTA TITRATION | PARTS PER MILLION | 768 | OBS | MONTHLY | SURFACE AND BOTTOM | AS CALCIUM CARBONATE |

THE EFFECTS OF THERMAL LOADING BY THE BREMO POWER STATION ON A PIEDMONT SECTION OF THE JAMES RIVER

DATA COLLECTED: JULY 1971 TO JUNE 1973

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, BREMO BLUFF TO COLUMBIA

ABSTRACT:
PIEDMONT SECTION OF JAMES RIVER, VIRGINIA STUDIED FOR EFFECTS OF THERMAL LOADING BY POWER STATION-INCLUDES PERIOD OF HURRICANE AGNES. ABIOTIC AND BIOTIC MESSUREMENTS MADE.
(DATA INCLUDES PERIOD OF HURRICANE AGNES; COLLECTIONS KEPT AT VA INST OF SCI RESEARCH)

DATA AVAILABILITY:
WITH APPROVAL REPORTS SENT TO OFFICE OF WATER RESEARCH, VIRGINIA ELECTRIC AND POWER COMPANY

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
25 PARAMETERS MEASURED OVER 24 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
WILLIAM S WOOLCOTT 703-282-9581
VIRGINIA INSTITUTE FOR SCIENTIFIC RESEARCH
RICHMOND VIRGINIA USA 23229

GRID LOCATOR (LAT):
730776 730766

PARAM TER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 10 | STATIONS | 60 TIMES PER YEAR | | |
| TIME | EARTH | SAMPLING TIME | YMDHL | 21600 | STATIONS | 60 TIMES PER YEAR | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 21600 | OBS | 60 TIMES PER YEAR | SURFACE | TEMPERATURE PROFILES TAKEN 6 TIMES PER YEAR |
| PH | WATER | SPECIFIC ION ELECTRODE | UNITS | 21600 | OBS | 60 TIMES PER YEAR | SURFACE | |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MILLIGRAMS PER LITER | 21600 | OBS | 60 TIMES PER YEAR | SUB-SURFACE | WINKLER TITRATION CHECK |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| AMMONIA | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 21600 OBS | 60 TIMES PER YEAR | SUB-SURFACE | |
| NITRATE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 21600 OBS | 60 TIMES PER YEAR | SUB-SURFACE | |
| NITRITE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 21600 OBS | 60 TIMES PER YEAR | SUB-SURFACE | |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 21600 OBS | 60 TIMES PER YEAR | SUB-SURFACE | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 21600 OBS | 60 TIMES PER YEAR | SUB-SURFACE | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | FEET | 21600 OBS | 60 TIMES PER YEAR | SUB-SURFACE | |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS PER SAMPLE | 151200 OBS | 60 TIMES PER YEAR | BOTTOM | 108000 SHORE BENTHOS COLLECTED USING MODIFIED TONGS. ARTIFICIAL SUBSTRATE USED TO COLLECT 43,200 ORGANISMS SUSPENDED 1 FT. OFF BOTTOM |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | NUMBER OF SPECIES PER SAMPLE. NUMBER OF INDIVIDUALS PER SPECIES PER SAMPLE | 151200 OBS | 60 TIMES PER YEAR | BOTTOM | 108000 SHORE BENTHOS COLLECTED USING MODIFIED TONGS. ARTIFICIAL SUBSTRATE USED TO COLLECT 43,200 ORGANISMS SUSPENDED 1 FT. OFF BOTTOM |
| COUNT OF DEMERSAL FISH | WATER | VISUAL | NUMBER OF INDIVIDUALS PER STATION | 540 OBS | 18 TIMES PER YEAR | | 220V 1 1/2 TO 3 AMP ELECTRIC SHOCK. 100 TO 250 YARDS PER STATION |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | NUMBER OF SPECIES PER STATION, NUMBER OF INDIVIDUAL SPECIES PER STATION | 540 OBS | 18 TIMES PER YEAR | | 220V 1 1/2 TO 3 AMP ELECTRIC SHOCK. 100 TO 250 YARDS PER STATION |
| BIOMASS OF DEMERSAL FISH | WATER | WET WEIGHT | GRAMS. SPECIES PER STATION | 540 OBS | 18 TIMES PER YEAR | | |
| LENGTH OF DEMERSAL FISH | WATER | STANDARD LENGTH | MILLIMETERS | 540 OBS | 18 TIMES PER YEAR | | LENGTH RANGE RECORDED |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| DIVERSITY INDEX OF DEMERSAL FISH | WATER | SHANNON-WEAVER | NUMBERS | 540 | OBS | 18 TIMES PER YEAR | | |
| STOMACH CONTENT ANALYSIS OF DEMERSAL FISH | WATER | VISUAL | PERCENTAGE OF SPECIES INGESTED PER FISH SPECIES | 540 | OBS | 18 TIMES PER YEAR | | |
| SPECIES DETERMINATION OF BENTHIC PLANTS | LAND | KEY | NUMBER OF SPECIES PER STATION | 540 | OBS | 18 TIMES PER YEAR | | ESTIMATES AS TO QUANTITY, SAMPLES COLLECTED ON SHORE |
| SPECIES DETERMINATION OF BENTHIC PLANTS | BOTTOM | KEY | NUMBER OF SPECIES PER SLIDE | 180 | OBS | 6 TIMES PER YEAR | | SAMPLES COLLECTED ON GLASS SLIDES SET IN RIVER |
| COUNT OF BENTHIC PLANTS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS PER SLIDE | 180 | OBS | 6 TIMES PER YEAR | | SAMPLES COLLECTED ON GLASS SLIDES SET IN RIVER |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | PARTS PER MILLION | 21600 | OBS | 60 TIMES PER YEAR | SUB-SURFACE | |

001024 SURVEY OF PHYTOPLANKTON IN THE YORK RIVER-MOBJACK BAY: DIATOMS PAGE 01

DATA COLLECTED: SEPTEMBER 1971 TO SEPTEMBER 1972

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
PHYTOPLANKTON SURVEY IN YORK RIVER-MOBJACK BAY. FLEXIBLE GROUPING CLUSTER ANALYSIS USED FOR DETERMINATION OF TEMPORAL AND SPATIAL RELATIONSHIPS BETWEEN STATIONS AND SPECIES

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
FILE CONSISTS OF 21,000 PUNCHED CARDS.

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS, MANZI, 1973 DATA INCLUDED IN RANN REPORTS

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LONGITUDE AND LATITUDE | 18 STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 234 STATIONS | | | |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MILLIGRAMS CARBON FIXED PER C U M PER HOUR | 234 OBS | | SURFACE, 1 1/ 2 METERS, 3 METERS | |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 234 OBS | | SURFACE, 1 1/ 2 METERS, 3 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL B | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 234 OBS | | SURFACE, 1 1/ 2 METERS, 3 METERS | ACETONE EXTRACTION |
| CHLOROPHYLL C | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 234 OBS | | SURFACE, 1 1/ 2 METERS, 3 | ACETONE EXTRACTION |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH METERS | REMARKS |
|---|---|---|---|---|---|---|---|
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 234 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | CADIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 234 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 234 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 234 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEGC | 234 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER OF CELLS PER MILLILITER | 291 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | SETTLING CHAMBERS ON INVERTED MICROSCOPE |
| SPECIES DETERMINATION OF PHYTOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER STATION PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES | 291 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | 19 DIATOM SPECIES, 15 SPECIES OF DINOFLAGELLATES, 2 SPECIES OF ENGLENOIDS, 2 SILICA FLAGELLATES, 2 CRYPTOPHYTES, 1 SPECIES CHLOROPHYTE, 1 CHRYSOPHYTE |
| COMMUNITY STRUCTURE ANALYSIS | WATER | CALCULATED | NUMBERS | 291 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | INDEX OF DIVERSITY, EVENNESS, RICHNESS OF PHYTOPLANKTON |
| INORGANIC CARBON | WATER | UNKNOWN | MILLIGRAMS PER LITER | 291 OBS | | SURFACE, 1 1/2 METERS, 3 METERS | COMBUSTION/ INFRARED |

001054 CHEMISTRY OF CHESAPEAKE BAY SEDIMENTS
DATA COLLECTED: JULY 1961 TO JUNE 1962



RECEIVED: JULY 20, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
CHEMICAL SURVEY OF THE SEDIMENTS IN CHESAPEAKE BAY COVERING THE RAPPAHANNOCK SHOAL AREA. ANALYSIS OF CORES TAKEN INCLUDE SEDIMENT SURFACE AND INTO THE SEDIMENT AT APPROX 10 CM INTERVALS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
38 PAGES, 19 CORES ANALYZED, 11 PARAMETERS MEASURED

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS, D K YOUNG, 1962

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775 730786 730785

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 19 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YML | 1 | STATIONS | | | ONE SAMPLING PERIOD, JULY 1961 |
| BATHYMETRY | WATER | LEAD LINE | METERS | 19 | OBS | | | |
| SIZE ANALYSIS | SEDIMENT | SETTLING/VISUAL | SAND, SILT OR CLAY, MEDIAN DIAMETER IN MM | 19 | OBS | | BOTTOM | SEDIMENT CORES TAKEN WITH GRAVITY CORERS, DIA 1.5 AND 2 IN |
| PH | INTERSTITIAL | SPECIFIC ION ELECTRODE | UNITS | 41 | OBS | | | 7 STATIONS, AT VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| ORGANIC CARBON | SEDIMENT | WET COMBUSTION/ INFRARED SPECTROMETRY | PERCENT BY WEIGHT | 68 OBS | | | 19 CORES, VARIOUS DEPTHS FROM SEDIMENT SURFACE |
| INORGANIC CARBON | SEDIMENT | WET COMBUSTION/ INFRARED SPECTROMETRY | PERCENT BY WEIGHT | 68 OBS | | | 19 CORES, VARIOUS DEPTHS FROM SEDIMENT SURFACE |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | PERCENT BY WEIGHT | 42 OBS | | | 14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE |
| IRON | SEDIMENT | SPECTROPHOTOMETRY | PERCENT BY WEIGHT | 42 OBS | | | 14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE |
| SODIUM | SEDIMENT | FLAME SPECTROMETRY | PERCENT BY WEIGHT | 42 OBS | | | 14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE |
| POTASSIUM | SEDIMENT | FLAME SPECTROMETRY | PERCENT BY WEIGHT | 42 OBS | | | 14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE |
| CALCIUM | SEDIMENT | FLAME SPECTROMETRY | PERCENT BY WEIGHT | 42 OBS | | | 14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE |
| MAGNESIUM | SEDIMENT | FLAME SPECTROMETRY | PERCENT BY WEIGHT | 42 OBS | | | 14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE |

DATA COLLECTED: MAY 1973 TO PRESENT

RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, HAMPTON ROADS, ELIZABETH RIVER, JAMES RIVER, LAFAYETTE RIVER

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND WATER QUALITY PARAMETERS IN HAMPTON ROADS, VA. NEAR SEVERAL SEWERAGE TREATMENT PLANTS

DATA AVAILABILITY:
RESTRICTED, PERMISSION OF CONTRACTOR REQUIRED

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
SEVEN SAMPLING AREAS: TO BE EXPANDED TO 21 AREAS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DONALD ADAMS 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 7 | STATIONS | MONTHLY | | STUDY TO BE EXPANDED TO 21 STATIONS |
| TIME | EARTH | STATION TIME | YMDL | 7 | STATIONS | MONTHLY | | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER | 21 | OBS | MONTHLY | SURFACE TO | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | THOUSAND | | | | BOTTOM | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | MILLIGRAMS PER LITER | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | |
| COUNT OF MICROBIOTA | WATER | VISUAL | NUMBER PER 100 MILLILITERS | 21 | OBS | MONTHLY | SURFACE TO BOTTOM | TOTAL COLIFORMS |

DATA COLLECTED: OCTOBER 1970 TO JANUARY 1972

RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LAFAYETTE RIVER

ABSTRACT:
ONE-YEAR DETERMINATION OF NUTRIENT LEVELS AND PROPOSED PREDICTIVE MODELS FOR PHOSPATE IN THE LAFAYETTE RIVER, VIRGINIA
AVAILABLE AS AN OLD DOMINION THESIS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
21 STATIONS WITH 17 SAMPLING PERIODS

FUNDING:

INVENTORY:

PUBLICATIONS:
OLD DOMINION THESIS

CONTACT:
JOHN LUDWICK 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 21 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 17 | STATIONS | | | NOT ALL STATIONS SAMPLED DURING EACH SAMPLING PERIOD |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 210 | OBS | | SURFACE AND BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 210 | OBS | | SURFACE AND BOTTOM | |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 210 | OBS | | SURFACE AND BOTTOM | |
| DISSOLVED | WATER | TITRATION | MILLIGRAMS PER | 210 | OBS | | SURFACE AND | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| OXYGEN GAS | | | LITER | | | | BOTTOM | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 210 | OBS | | SURFACE AND BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 210 | OBS | | SURFACE AND BOTTOM | |

001067 CHLOROPHYLL AND SUSPENDED MATERIAL IN THE WATERS OF LOWER CHESAPEAKE BAY 

DATA COLLECTED: AUGUST 1972 TO PRESENT

RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
ON GOING STUDY STARTED AUGUST 1972 OF CHLOROPHYLL AND SUSPENDED MATERIAL IN THE WATERS OF THE LOWER CHESAPEAKE BAY IN CONJUNCTION WITH REMOTE SENSING, NASA ERTS PROJECT
(IN CONJUNCTION WITH REMOTE SENSING, NASA ERTS PROJECT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND )

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP; AIRCRAFT.

ARCHIVE MEDIA:
DATA SHEETS
3 FIXED TRANSECTS; 6 PARAMETERS SAMPLED EVERY 18 DAYS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PETER FLEISCHER 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 3 | STATIONS | | | 3 FIXED TRANSECTS SAMPLED |
| TIME | EARTH | STATION TIME | YMDL | 45 | STATIONS | EVERY 18 DAYS | | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MILLIGRAMS PER LITER | 300 | OBS | EVERY 18 DAYS | SURFACE | SAMPLED BY HELICOPTER |
| LIGHT ATTENUATIO N | WATER | IN SITU TRANSMISSOMETER | PERCENT TRANSMISSION | 45 | OBS | EVERY 18 DAYS | SURFACE | BENDIX MODIFIED BY NASA LANGLEY |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MILLIGRAMS PER LITER | 225 | OBS | EVERY 18 DAYS | SURFACE | |
| PARTICULATE MATTER | WATER | PARTICLE COUNT AVERAGING | NUMBER OF PARTICLES PER MILLILITER | 300 | OBS | EVERY 18 DAYS | SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 225 | OBS | EVERY 18 DAYS | SURFACE | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 225 | OBS | EVERY 18 DAYS | SURFACE | |
| BATHYMETRY | WATER | UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC | FEET | 6 | OBS | | | |

DATA COLLECTED: MARCH 1973 TO MARCH 1973

RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
WATER QUALITY AND HYDROGRAPHIC SURVEY OF THE CHESAPEAKE BAY ON TRANSECTS FROM THE BAY MOUTH TO ANNAPOLIS, MD.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
20 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DONALD ADAMS 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 20 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 1 | STATIONS | | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 66 | OBS | | SURFACE TO BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 66 | OBS | | SURFACE TO BOTTOM | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 66 | OBS | | SURFACE TO BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 66 | OBS | | SURFACE TO BOTTOM | PERCENT SATURATION COMPUTED |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 66 | OBS | | SURFACE TO BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 66 | OBS | | SURFACE TO BOTTOM | |
| PARTICULATE | WATER | MEMBRANE | MILLIGRAMS PER | 66 | OBS | | SURFACE TO | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| MATTER | | FILTRATION | LITER | | | BOTTOM | |
| DEPTH | WATER | WIRE LENGTH | FEET | 66 OBS | | | DEPTH OF SAMPLE |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | MILLIGRAMS PER LITER | 66 OBS | | SURFACE TO BOTTOM | |
| CHEMICAL OXYGEN DEMAND | WATER | TITRATION | MILLIGRAMS PER LITER | 66 OBS | | SURFACE TO BOTTOM | |
| COUNT OF MICROBIOTA | WATER | VISUAL | NUMBER PER 100 MILLILITERS | 66 OBS | | SURFACE TO BOTTOM | FECAL COLIFORM |
| METHANE IN BIO MATERIAL | WATER | GAS CHROMATOGRAPHY | ML X10 -5 PER LITER | 60 OBS | | SURFACE TO BOTTOM | |

ORTHOPHOSPHATE IN THE LAFAYETTE RIVER
DATA COLLECTED: OCTOBER 1970 TO JANUARY 1972

RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, HAMPTON ROADS, LAFAYETTE RIVER

ABSTRACT:
SURVEY OF NUTRIENT CONCENTRATIONS IN THE LAFAYETTE RIVER, NORFOLK, VA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
980 OBSERVATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
ODU THESIS, MONTGOMERY, 1972

CONTACT:
DONALD ADAMS 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 35 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDL | 490 | STATIONS | MONTHLY | | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 980 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 980 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 980 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 960 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 980 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| SALINITY | WATER | TITRATION | PERCENT PER THOUSAND | 960 | OBS | MONTHLY | SURFACE AND BOTTOM | |

ENVIRONMENTAL CONSULTATION-WETLANDS LYNNHAVEN AREA OF LOWER CHESAPEAKE BAY AND ELIZABETH RIVER

DATA COLLECTED: JUNE 1972 TO PRESENT

RECEIVED: AUGUST 08, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, LYNNHAVEN BAY, ELIZABETH RIVER

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND BIOLOGICAL PARAMETERS OF LOWER CHESAPEAKE BAY, LYNNHAVEN BAY AND ELIZABETH RIVER, VA. DATA COLLECTED IN CONJUNCTION WITH CONTRACT WORK FOR CONTRACTORS AND LAND DEVELOPERS

DATA AVAILABILITY:
ON APPROVAL FROM CONTRACTOR

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
200 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL KIRK 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730775 730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 200 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 200 | STATIONS | | | |
| SPECIES DETERMINATION OF BENTHIC PLANTS | LAND | KEY | NUMBER OF INDIVIDUALS PER SPECIES | 200 | OBS | | | MARSH PLANTS |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | NUMBER OF INDIVIDUALS PER SPECIES | 200 | OBS | | | |
| COUNT OF BENTHIC PLANTS | LAND | VISUAL | NUMBER PER ACRE | 200 | OBS | | | |
| COUNT OF BENTHIC | BOTTOM | VISUAL | NUMBER PER ACRE | 200 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| ANIMALS | | | | | | | | |
| BIOMASS OF BENTHIC PLANTS | LAND | DRY WEIGHT | POUNDS PER ACRE | 200 | OBS | | | |
| BIOMASS OF BENTHIC ANIMALS | BOTTOM | DRY WEIGHT | POUNDS PER ACRE | 200 | OBS | | | |
| SALINITY | WATER | HYDROMETER | PARTS PER THOUSAND | 14 | OBS | | SURFACE AND BOTTOM | LYNNHAVEN AREA |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 14 | OBS | | SURFACE AND BOTTOM | LYNNHAVEN AREA |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 14 | OBS | | SURFACE AND BOTTOM | LYNNHAVEN AREA |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 14 | OBS | | SURFACE AND BOTTOM | LYNNHAVEN AREA |
| COUNT OF MICROBIOTA | WATER | VISUAL | CULTURE GROWTH (MPN) | 14 | OBS | | SURFACE AND BOTTOM | COLIFORM, LYNNHAVEN AREA |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 14 | OBS | | SURFACE AND BOTTOM | LYNNHAVEN AREA |
| NITRATE | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 14 | OBS | | SURFACE AND BOTTOM | LYNNHAVEN AREA |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | FEET | 14 | OBS | | | LYNNHAVEN AREA |
| SIZE ANALYSIS | SEDIMENT | SIEVE | PERCENT COMPOSITION | 7 | OBS | | BOTTOM | LYNNHAVEN AREA |

DATA COLLECTED: MAY 1973 TO PRESENT
RECEIVED: JANUARY 01, 1976

PROJECTS:
SKYLAB

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, ASSATEAGUE ISLAND

ABSTRACT:
PROJECT TO CORRELATE CHLOROPHYLL AND PHYTOPLANKTON CONCENTRATIONS TO REMOTE SENSING TECHNIQUES. REMOTE SENSING WITH THE USE OF SKYLAB 2 IN COOPERATION WITH NASA LANGLY

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:

ONE OVER PASS BY SKYLAB 2; 8 GROUND TRUTH STATIONS OCCUPIED

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HAROLD G. MARSHALL 804-489-8000
OLD DOMINION UNIVERSITY
DEPT OF BIOLOGICAL SCIENCES
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730775 730785

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 8 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 6 | STATIONS | | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 8 | OBS | | SURFACE | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 8 | OBS | | SURFACE | |
| TOTAL CHLOROPHYL L | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 8 | OBS | | SURFACE | |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER OF INDIVIDUALS PER SAMPLE | 8 | OBS | | | |
| SPECIES DETERMINATION OF PHYTOPLANKTO | WATER | KEY | NUMBER OF SPECIES PER SAMPLE, NUMBER | 8 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| N | | | OF INDIVIDUALS PER SPECIES | | | | |

DATA COLLECTED: MAY 1965 TO MAY 1966

RECEIVED: AUGUST 27, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
HYDROGRAPHIC AND NUTRIENT SURVEY OF THE JAMES RIVER FROM HAMPTON ROADS TO RICHMOND, VA MONTHLY CRUISES COVERED 10 STATIONS ALONG THE AXIS OF THE JAMES RIVER

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
97 PAGES

FUNDING:
FEDERAL WATER POLLUTION CONTROL ADM CONTRACT NO PH 86-65-86

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL REPORT IN APPLIED SCIENCE AND OCEAN ENGINEERING, NO 6, 1966

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766 730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION, RIVER MILES | 10 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 12 | STATIONS | MONTHLY | | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 120 | OBS | MONTHLY | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 494 | OBS | MONTHLY | SURFACE TO BOTTOM AT 2 METER INTERVALS | NOT ALL STATIONS SAMPLED; SOME FRESH WATER STATIONS |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 608 | OBS | MONTHLY | SURFACE TO BOTTOM AT 2 METER INTERVALS | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG PER LITER | 608 | OBS | MONTHLY | SURFACE TO BOTTOM AT 2 METER INTERVALS | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 608 | OBS | MONTHLY | SURFACE TO BOTTOM AT 2 METER INTERVALS | |
| TOTAL ALKALINITY | WATER | TITRATION | MEQ PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MG PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| PHOSPHCRUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| REACTIVE PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | SOLUBLE AND PARTICULATE |
| UNREACTIVE PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | SOLUBLE AND PARTICULATE |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| ORGANIC NITROGEN | SUSPENDED | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | KJELDAHL |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 240 | OBS | MONTHLY | SURFACE AND BOTTOM | |

DATA COLLECTED: DECEMBER 1969 TO PRESENT

RECEIVED: AUGUST 27, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CONTINENTAL SHELF OFF VIRGINIA AND NORTH CAROLINA VIRGINIA

ABSTRACT:
YEARLY SURVEY OF HYDROGRAPHIC PARAMETERS AND ZOOPLANKTON ON THE CONTINENTAL SHELF AND SLOPE OFF THE COAST OF NORTH CAROLINA AND VIRGINIA. SAMPLING DESIGNED TO STUDY THE BIOGEOGRAPHIC REGIONS AND FAUNAL BOUNDRY NORTH AND SOUTH OF CAPE HATTERAS AS WELL AS THE NORFOLK CANYON AREA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
APPROX 40 STATIONS OCCUPIED SINCE 1969

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
GEORGE GRANT 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730745 730755 730765 730764 730774

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | LONG RANGE NAVIGATIONAL NET | DMS | 40 | STATIONS | YEARLY | | |
| TIME | EARTH | SAMPLING TIME | YMDHML | 160 | STATIONS | YEARLY | | |
| DEPTH | WATER | UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC | METERS | 160 | STATIONS | YEARLY | | PROFILES OF NORFOLK CANYON AREA |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 160 | STATIONS | YEARLY | SURFACE TO BOTTOM PROFILES | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 160 | STATIONS | YEARLY | SURFACE TO 900 METERS | NANSON BOTTLE CASTS |
| DISSOLVED | WATER | TITRATION | MG PER LITER | 120 | OBS | YEARLY | SURFACE TO | WINKLER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| OXYGEN GAS | | | | | | 900 METERS | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 120 OBS | YEARLY | SURFACE TO 900 METERS | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 120 OBS | YEARLY | SURFACE TO 900 METERS | DIAZOITATION |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 120 OBS | YEARLY | SURFACE TO 900 METERS | MOLYBDATE |
| ORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | MG PER LITER | 120 OBS | YEARLY | SURFACE TO 900 METERS | |
| COUNT OF ZOOPLANKTON | WATER | FIXED, UNSTAINED, ALIQUOT | NUMBER OF INDIVIDUALS PER TOW PER DEPTH | 40 OBS | YEARLY | SURFACE TO 375 METERS | CHAETOGNATHS, BONGO NETS, MILLER SAMPLERS |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER TOW PER DEPTH, NUMBER OF INDIVIDUALS PER SPECIES | 40 OBS | YEARLY | SURFACE TO 375 METERS | CHAETOGNATHS, BONGO NETS, MILLER SAMPLERS |
| TEMPERATURE | WATER | MECHANICAL BT | DEG C | 40 STATIONS | YEARLY | SURFACE TO BOTTOM PROFILES | |

A STUDY OF THE EFFECTS OF DREDGING AND DREDGE SPOIL DISPOSAL ON THE MARINE ENVIRONMENT

DATA COLLECTED: JUNE 1961 TO APRIL 1963

RECEIVED: AUGUST 27, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
INTENSIVE SURVEY OF SEDIMENTS AND BENTHIC ANIMALS IN THE AREA OF THE RAPPAHANNOCK SHOAL AND SOIL DISPOSAL LOCATION IN CHESAPEAKE BAY. SOME LIMITED SAMPLING IN YORK SPIT CHANNEL. SEDIMENT ANALYSIS IS COUPLED WITH A SURVEY OF BENTHIC FAUNA AND RELATED TO FEEDING TYPES. SUBSTRATE, HABITAT, SIZE, ABUNDANCE AND FREQUENCY OF ENCOUNTER. COMPARISON OF IN CHANNEL AND OUT CHANNEL SAMPLING DATA INCLUDED ALONG WITH COMMENTS AS TO THE EFFECT OF SPOIL DEPOSITION ON BENTHIC FAUNA. COMMENTS AS TO SEASONAL VARIATION OF BENTHIC FAUNA AND EFFECTS OF DREDGING INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
116 PAGES

FUNDING:
CORPS OF ENGINEERS, U S ARMY, CONTRACT NO DA-44-110-CIVENG-61-181

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL REPORT IN APPLIED MARINE SCIENCE AND OCEAN ENGINEERING, NO 8, 1967

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 98 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YML | 5 | STATIONS | | | SAMPLES TAKEN DURING FIVE CRUISES |
| BATHYMETRY | WATER | LEAD LINE | METERS | 98 | OBS | | | |
| SIZE ANALYSIS | SEDIMENT | SIEVE | TEXTURAL CLASS (SHEPARD, 1954), MODAL CLASS, MEDIAN DIAMETER IN | 98 | OBS | | | GRAVITY CORER 2 IN DIA; PETERSON GRAB 1/15 SQ METER; TOP 5 IN OF |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | MM, MEDIAN DIAMETER IN PHI SIZES | | | | CORE ANALYZED |
| SIZE ANALYSIS | SEDIMENT | SETTLING/VISUAL | TEXTURAL CLASS (SHEPARD, 1954), MODAL CLASS, MEDIAN DIAMETER IN MM, MEDIAN DIAMETER IN PHI SIZES | 98 OBS | | | GRAVITY CORER 2 IN DIA; PETERSON GRAB 1/15 SQ METER; TOP 5 IN OF CORE ANALYZED |
| ORGANIC CARBON | SEDIMENT | DRY COMBUSTION/ GAS DISPLACEMENT | PER CENT BY WEIGHT | 68 OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM | NOT ALL STATIONS SAMPLED |
| INORGANIC CARBON | SEDIMENT | DRY COMBUSTION/ GAS DISPLACEMENT | PER CENT BY WEIGHT | 68 OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM | NOT ALL STATIONS SAMPLED |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | PER CENT BY WEIGHT | 68 OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM | NOT ALL STATIONS SAMPLED |
| IRON | SEDIMENT | SPECTROPHOTOMETRY | PER CENT BY WEIGHT | 68 OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM | NOT ALL STATIONS SAMPLED |
| SODIUM | SEDIMENT | FLAME SPECTROMETR Y | PER CENT BY WEIGHT | 68 OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM | NOT ALL STATIONS SAMPLED |
| POTASSIUM | SEDIMENT | FLAME SPECTROMETR Y | PER CENT BY WEIGHT | 68 OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM | NOT ALL STATIONS SAMPLED |
| CALCIUM | SEDIMENT | TITRATION | PER CENT BY WEIGHT | 68 OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS | NOT ALL STATIONS SAMPLED |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | 90 CM | |
| MAGNESIUM | SEDIMENT | TITRATION | PER CENT BY WEIGHT | 68 | OBS | | SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM | NOT ALL STATIONS SAMPLED |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES | 518 | OBS | | | PETERSON GRAB 1/15 SQ METER; SAMPLE PROCESSED THRU 0.5 MM AND 1.0 MM SCREEN |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS PER SAMPLE PER SCREEN SIZE, TOTAL INDIVIDUALS | 518 | OBS | | | PETERSON GRAB 1/15 SQ METER; SAMPLE PROCESSED THRU 0.5 MM AND 1.0 MM SCREEN |
| COMMUNITY STRUCTURE ANALYSIS | BOTTOM | CALCULATED | NUMBERS | 476 | OBS | | | DIVERSITY ANALYSIS, RANK, BIO INDEX, FREQUENCY |
| TAXONOMIC LIST OF BENTHIC ANIMALS | BOTTOM | KEY | NAMES | 68 | OBS | | | |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | SPECIES RELATED TO SEDIMENT TYPES, NUMBER OF INDIVIDUALS PER SPECIES PER SEDIMENT TYPE PER METER SQ | 476 | OBS | | | |

001236 A BIOLOGICAL AND CHEMICAL STUDY OF THE NANSEMOND RIVER, VIRGINIA PAGE 01

DATA COLLECTED: JULY 1966 TO JUNE 1967 RECEIVED: AUGUST 27, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, NANSEMOND RIVER

ABSTRACT:
PHYSICAL, CHEMICAL AND BIOLOGICAL PARAMETERS SAMPLED MONTHLY IN THE NANSEMOND RIVER, VA, 1966-1967.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
64 PAGES

FUNDING:
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION CONTRACT NO WA 66-12

INVENTORY:

PUBLICATIONS:
SPECIAL REPORTS IN APPLIED MARINE SCIENCE AND OCEAN ENGINEERING NO 9, VIMS

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 10 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YMDL | 10 | STATIONS | MONTHLY | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 120 | OBS | MONTHLY | | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| TOTAL ALKALINITY | WATER | SPECIFIC ION ELECTRODE | MEQ PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| PARTICULATE | WATER | MEMBRANE | MG PER LITER | 252 | OBS | MONTHLY | 1 AND 3 | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| MATTER | | FILTRATION | | | | | METERS | |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| REACTIVE PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | 252 OBS EACH FOR SOLUBLE AND PARTICULATE |
| UNREACTIVE PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | 252 OBS EACH FOR SOLUBLE AND PARTICULATE |
| AMMONIA | WATER | TITRATION | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | CADMIUM REDUCTION |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| ORGANIC NITROGEN | SUSPENDED | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | KJELDAHL |
| NITROGEN | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | KJELDAHL |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 252 | OBS | MONTHLY | 1 AND 3 METERS | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | NUMBER OF SPECIES PER STATION, ORDER OF ABUNDANCE PER STATION | 40 | OBS | MONTHLY | | |

DATA COLLECTED: MAY 1971 TO DECEMBER 1972 RECEIVED: SEPTEMBER 17, 1973

PROJECTS:
CHESAPEAKE RESEARCH CONSORTIUM, JUNE 1973

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
STUDY TO ASSESS NORMAL SEASONAL RANGES OF PRODUCTIVITY AND HETEROTROPHY POTENTIALS AS A REFERENCE TO ESTABLISHING CRITERIA AND PREDICTABILITY OF PLANKTON BLOOMS. TO DEVELOP RAPID SHIPBOARD TECHNIQUES TO BE USED IN ASSESSING THE DYNAMICS OF THE LOWER TROPHIC LEVEL OF THE ESTUARINE ECOSYSTEM.
(GRAPH OF STEAM DISCHARGE FOR THE YORK RIVER SYSTEM COMPUTED FROM DATA OBTAINED FROM U S GEOLOGICAL SURVEY )

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
9 PARAMETERS, 114 OBSERVATIONS OF EACH PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ZUBKOFF 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM AND MAP LOCATION | 1 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDL | 38 | STATIONS | | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 114 | OBS | | 1M, 10M AND BOTTOM | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 114 | OBS | | 1M, 10M AND BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 114 | OBS | | 1M, 10M AND BOTTOM | |
| NITRITE | WATER | AUTOANALYZER | MICROGRAM ATOMS PER LITER | 114 | OBS | | 1M, 10M AND BOTTOM | |
| NITRATE | WATER | AUTOANALYZER | MICROGRAM ATOMS PER LITER | 114 | OBS | | 1M, 10M AND BOTTOM | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| ORTHOPHOSPHATE | WATER | AUTOANALYZER | MICROGRAM ATOMS PER LITER | 114 OBS | | 1M, 10M AND BOTTOM | |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER CUBIC METER | 114 OBS | | 1M, 10M AND BOTTOM | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MILLIGRAMS PER CUBIC METER | 114 OBS | | 1M, 10M AND BOTTOM | |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MILLIGRAMS OF CARBON PER CUBIC METER PER HOUR | 114 OBS | | 1M, 10M AND BOTTOM | |
| HETEROTROPHIC RATE | WATER | LIQUID SCINTILLATION UNILUXI | MILLIGRAMS GLUCOSE PER CUBIC METER PER HOUR | 114 OBS | | 1M, 10M AND BOTTOM | DATA ON MICHAELIS-MENTEN UPTAKE BINETICS INCLUDED |

001498

AN ECOLOGICAL EVALUATION OF THE HEATED DISCHARGE FROM THE POSSUM POINT POWER STATION ON PHYTOPLANKTON BLOOMS IN THE POTOMAC RIVER ESTUARY
DATA COLLECTED: APRIL 1971 TO DECEMBER 1971

RECEIVED: MARCH 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:
AN EIGHT MONTH SURVEY OF WATER QUALITY IN THE POTOMAC RIVER, MARYLAND NEAR THE POSSUM POINT POWER STATION AND CHARACTERIZATION OF PHYTOPLANKTON BLOOMS. EFFECTS OF PLANT ON BLOOMS OF ALGAE.
(RESEARCH CONDUCTED BY GEORGE M SIMMONS JR. OF VPI )

DATA AVAILABILITY:
UPON WRITTEN REQUEST SUBJECT TO THEIR APPROVAL AND CONDITIONS

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
70 PAGE REPORT WITH TABLES AND TEXT

FUNDING:
VEPCO

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN C WHITE 804 771 3389
VIRGINIA ELECTRIC AND POWER COMPANY
P O BOX 26666
RICHMOND VIRGINIA USA 23260

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 240 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 240 | STATIONS | | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 720 | OBS | BIWEEKLY | 1 METER INTERVALS SURFACE TO BOTTOM | YSI MODEL 51 |
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | CENTIMETERS | 240 | OBS | BIWEEKLY | | 20 CENTIMETER DISC |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 480 | OBS | BIWEEKLY | SURFACE AND 1 METER | AZIDE MODIFICATION, WINKLER |
| AMMONIA | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER | 240 | OBS | BIWEEKLY | SURFACE | SEPTEMBER TO |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | LITER | | | | | NOVEMBER ALSO USED NESSLERIZATION METHOD |
| NITRITE | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 240 | OBS | BIWEEKLY | SURFACE | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 240 | OBS | BIWEEKLY | SURFACE | CADIMUM REDUCTION METHOD |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 240 | OBS | BIWEEKLY | SURFACE | PHOS VER III METHOD. SEPTEMBER TO NOVEMBER USED ASCORBIC ACID METHOD |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MILLIGRAMS PER LITER | 240 | OBS | BIWEEKLY | SURFACE | PERSULFATE OXIDATION |
| TOTAL SOLIDS | WATER | DRY WEIGHT | MILLIGRAMS PER LITER | 240 | OBS | BIWEEKLY | SURFACE | |
| FIXED TOTAL SOLIDS | WATER | ASH WEIGHT | MILLIGRAMS PER LITER | 240 | OBS | BIWEEKLY | SURFACE | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 240 | OBS | BIWEEKLY | SURFACE | PORTOMATIC MODEL 175 PH METER AND BECKMAN ELECTROMATE PH METER(MODEL 1009) |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | NUMBER OF SPECIES PER SAMPLE PER COLLECTION TRIP | 240 | OBS | BIWEEKLY | SURFACE AND 1 METER | JUDAY TRAP AND KEMMERER BOTTLE |
| TAXONOMIC LIST OF PHYTOPLANKTO N | WATER | KEY | GENERA | 240 | OBS | BIWEEKLY | SURFACE AND 1 METER | JUDAY TRAP AND KEMMERER BOTTLE |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER PER TAXON AND CELLS PER MILLILITER | 240 | OBS | BIWEEKLY | SURFACE AND 1 METER | WHIPPLE DISH AND SEDGEWICK RAFTER CELL |

DATA COLLECTED: FEBRUARY 1970 TO AUGUST 1970
RECEIVED: APRIL 29, 1974

PROJECTS:
ASSATEAGUE ECOLOGICAL STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELMARVA PENINSULA, CHINCOTEAGUE BAY

ABSTRACT:
BASELINE DATA FOR CHINCOTEAGUE BAY CONTAINED IN THIS FILE FROM 3 TRANSECTS. PROJECT OBJECTIVES WERE TO ASSESS THE DISTRIBUTION OF PRIMARY PRODUCTION AND NUTRIENTS IN THE BAY. NITROGEN, PHOSPHORUS, CARBON, CHLOROPHYLL, OXYGEN AND C-14 PRODUCTIVITY, AND WATER CHEMISTRY INCLUDED.
(WORK BY WALTER BOYNTON, NRI REFERENCE NUMBER 446, UNIVERSITY OF MARYLAND)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
PART 3 OF 300 PAGE REPORT

FUNDING:
NATIONAL PARKS SERVICE CONTRACT NUMBER 14-10-5-950-36

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 57 STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHML | 57 STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 47 OBS | | SURFACE | BECKMAN RS-5 |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 10 OBS | | SURFACE | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 57 OBS | | SURFACE | BECKMAN RS-5 |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | DECIMETER | 57 OBS | | | 20 CM DISC |
| INSOLATION | AIR | PYRHELIOMETER, DAILY MEAN | LANGLEYS PER DAY | 13 OBS | | | YELLOT SOL A METER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | GRAMS CARBON/ CUBIC METER/ DAY | 63 OBS | | | PROFILE NATURAL LIGHT |
| PHOTOSYNTHETIC RATE | WATER | OXYGEN DETERMINAT ION | GRAMS CARBON/ CUBIC METER/ DAY | 70 OBS | | | PROFILE NATURAL LIGHT |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MG/CUBIC METER | 57 OBS | | SURFACE | TURNER FLUOROMET ER MODEL 3 |
| PHAEOPHYTIN A | WATER | FLUOROMETRY | MG/CUBIC METER | 57 OBS | | SURFACE | TURNER FLUOROMET ER MODEL 3 |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | FROZEN SAMPLES RETURNED TO LAB |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | FROZEN SAMPLES RETURNED TO LAB |
| AMMONIA | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | FROZEN SAMPLES RETURNED TO LAB |
| AMINO ACIDS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | FREE |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | FROZEN SAMPLES RETURNED TO LAB |
| ORGANIC PHOSPHORUS IN BIO MATERIAL | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | FROZEN SAMPLES RETURNED TO LAB |
| ORGANIC CARBON | SUSPENDED | DRY COMBUSTION/ INFRARED SPECTROMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | BECKMAN IR 215 |
| ORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | |
| ORGANIC NITROGEN | DISSOLVED | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | |
| ORGANIC NITROGEN | SUSPENDED | SPECTROPHOTOMETRY | MICROGRAM ATOM/ L | 57 OBS | | SURFACE | |

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., PATUXENT RIVER ESTUARY

ABSTRACT:
SHORT-TERM CONCENTRATIONS AND FLUXES OF CHEMICAL AND BIOLOGICAL COMPONENTS WERE STUDIED IN THE PATUXENT RIVER ESTUARY ACROSS NINE TRANSECTS OVER A TWENTY-FIVE HOUR PERIOD.

DATA AVAILABILITY:
AFTER DECEMBER 1974

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
ONE 2000 FT REEL OF NINE-TRACT MAGNETIC TAPE

FUNDING:
U.S. ARMY CORP OF ENGINEERS AND OTHERS

INVENTORY:

PUBLICATIONS:

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DEPARTMENT OF METEOROLOGY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 17 | STATIONS | | | NINE TRANSECTS AT 4 MILE INTERVALS 25 HOUR STUDY |
| TIME | EARTH | STATION TIME | YMDH | 425 | OBS | HOURLY | | |
| CURRENT SPEED | WATER | IMPELLOR METER | FT PER SECOND | 2550 | OBS | EVERY 10 MINUTES | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| CURRENT DIRECTION | WATER | IMPELLOR METER | DEG | 2550 | OBS | EVERY 10 MINUTES | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| TEMPERATURE | WATER | THERMISTOR | DEG C | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | UG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| ORGANIC PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| NITRATE PLUS NITRITE | WATER | AUTOANALYZER | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| AMMONIA | WATER | AUTOANALYZER | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| KJELDAHL NITROGEN | WATER | AUTOANALYZER | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| ORGANIC CARBON | SUSPENDED | WET COMBUSTION/ INFRARED SPECTROMETRY | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| ORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| PHOSPHORUS | WATER | AUTOANALYZER | MG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | HYDROLYZABLE FRACTION |
| TOTAL CHLOROPHYL L | WATER | FLUOROMETRY | UG PER LITER | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| HEAT FLUX | WATER | CALCULATED | | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |
| SALINITY FLUX | WATER | UNKNOWN | | 425 | OBS | HOURLY | SURFACE TO BOTTOM AT 10 FT INTERVALS | |

[illegible] THE EFFECTS OF THERMAL LOADING AND WATER QUALITY ON ESTUARINE PRIMARY PRODUCTION PAGE 01
DATA COLLECTED: APRIL 1968 TO AUGUST 1970 RECEIVED: APRIL 29, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, PATUXENT RIVER

ABSTRACT:
DATA ON HYDROGRAPHY AND NUTRIENT CHEMISTRY ARE REPORTED FOR THE PERIOD AUGUST 1968 TO AUGUST 1970 FOR A NUMBER OF STATIONS ALONG THE UPPER PATUXENT ESTUARY. THIS STUDY WAS CONCEIVED TO MEASURE THE EFFECTS IF ANY, OF THERMAL LOADING AND NUTRIENTS ON PRIMARY PRODUCTION AND PHYTOPLANKTON STANDING CROPS.
(ALSO AVAILABLE AT CBL LIBRARY, NRI REF NO 71-6)

DATA AVAILABILITY:
AVAILABLE AT COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE FINAL REPORT TO OWRR CONTAINING ALL DATA. [illegible] PAGES.

FUNDING:
OFFICE OF WATER RESOURCES RESEARCH

INVENTORY:

PUBLICATIONS:

CONTACT:
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CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 14 | STATIONS | | | STATIONS ALONG PATUXENT RIVER ESTUARY FROM TIDAL FRESH WATER TO AN AREA 12 MILES ABOVE SOLOMONS MARYLAND |
| TIME | EARTH | STATION TIME | YMD | 375 | OBS | | | SAMPLING TRIWEEKLY DURING 1969 AND BIWEEKLY |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | DURING 1970 |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 450 | OBS | | SURFACE AND BOTTOM | BOTTOM SAMPLES AT FOUR STATIONS ONLY |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 450 | OBS | | SURFACE AND BOTTOM | BOTTOM SAMPLES AT FOUR STATIONS ONLY |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | BOTTOM SAMPLES AT FOUR STATIONS ONLY |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | BOTTOM SAMPLES AT FOUR STATIONS ONLY |
| CARBOHYDRATES | WATER | COLORIMETRY | MG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | PARTICULATE CARBOHYDRATES MEASURED AS SUCROSE |
| ORGANIC NITROGEN | SUSPENDED | DRY COMBUSTION/ GAS DISPLACEMENT | MG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 |
| NITRITE | WATER | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 |
| NITRATE | WATER | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 |
| ORGANIC NITROGEN | DISSOLVED | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 KJELDAHL AND ULTRAVIOLET LIGHT OXIDATION TECHNIQUES USED |
| AMMONIA | WATER | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | AMMONIA PLUS AMINO ACIDS |
| NITROGEN | DISSOLVED | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 |
| PHOSPHORUS | DISSOLVED | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 |
| PHOSPHORUS | WATER | COLORIMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | STRICKLAND AND PARSONS, 1968 |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | UG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | BOTH TOTAL CHL A AND ACTIVE CHL A MEASURED |
| ORGANIC CARBON | DISSOLVED | WET COMBUSTION/ INFRARED SPECTROMETRY | MG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | MENZEL AND YACCARO, 1964 |
| ORGANIC CARBON | SUSPENDED | WET COMBUSTION/ INFRARED SPECTROMETRY | MG PER LITER | 450 | OBS | | SURFACE AND BOTTOM | MENZEL AND YACCARO, 1964 |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MG C/M2/HR | 250 | OBS | | SURFACE AND BOTTOM | |

[illegible]

CHINCOTEAGUE AND SINEPUXENT BAY BENTHOS
DATA COLLECTED: AUGUST 1969 TO AUGUST 1969


RECEIVED: APRIL 29, 1974

PROJECTS:
ASSATEAGUE ECOLOGICAL STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELMARVA PENINSULA, CHINCOTEAGUE BAY, SINEPUXENT BAY

ABSTRACT:
DESCRIPTIVE SURVEY OF BENTHIC COMMUNITIES IN CHINCOTEAGUE AND SINEPUXENT BAYS CONDUCTED IN 1969. 139 STATIONS OCCUPIED WITH 3 REPLICATE SAMPLES PER STATION. DEPTH, SEDIMENT TYPE, AND BIOLOGICAL MATERIAL REPORTED FOR EACH STATION. MORE INTENSIVE SAMPLING PERFORMED IN AREAS OF DREDGE BORROW PITS.
(ANALYSES BY KLAUS DROBECK, NRI REFERENCE 446, UNIVERSITY OF MARYLAND)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
PART 6 OF 300 PAGE REPORT

FUNDING:
NATIONAL PARKS SERVICE CONTRACT NUMBER 14-10-[illegible]-950-36

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 139 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 139 | STATIONS | | | |
| DEPTH | WATER | WIRE LENGTH | FEET | 139 | OBS | | BOTTOM | |
| SIZE ANALYSIS | SEDIMENT | SETTLING/ WEIGHING | PHI UNITS | 139 | OBS | | | MEAN GRAIN SIZE, MEDIAN GRAIN SIZE, SKEWNESS, SORTING COEFFICIENT |
| ORGANIC CARBON | SEDIMENT | GRAVIMETRY | PERCENT OF SAMPLE | 139 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SPECIES DETERMINATION OF BENTHIC PLANTS | BOTTOM | KEY | NUMBER OF SPECIES PER STATION | 139 | OBS | | | |
| COUNT OF BENTHIC PLANTS | BOTTOM | VISUAL | NUMBER PER SPECIES | 139 | OBS | | | RELATIVE ABUNDANCE SCALE TO RANK THE DOMINANT SPECIES |
| SPECIES DETERMINATION OF BENTHIC | BOTTOM | KEY | NUMBER OF SPECIES PER STATION | 417 | OBS | | | |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER PER SPECIES PER REPLICATE PER STATION AND MEANS | 417 | OBS | | | |
| LENGTH OF BENTHIC ANIMALS | BOTTOM | DIRECT | MILLIMETERS | 139 | OBS | | | VENUS MERCENARIA , SIZE FREQUENCY PER STATION, MEAN LENGTH PER STATION |
| COMMUNITY STRUCTURE ANALYSIS | BOTTOM | CALCULATED | CORRELATIONS | 139 | OBS | | | DISTRIBUTION AND DENSITY OF CLAMS WITH OTHER FACTORS OF PHYSICAL AND BIOLOGICAL NATURE OF HABITAT |

[illegible]

CARROLL ISLAND FISH SEINING STUDY
DATA COLLECTED: MAY 1970 TO FEBRUARY 1972


RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, MARYLAND, CHESAPEAKE BAY, GUNPOWDER RIVER ESTUARY

ABSTRACT:
TWO FISH SEINING STATIONS WERE SAMPLED AT BIWEEKLY INTERVALS OVER A TWO YEAR PERIOD. CHEMICAL PARAMETERS WERE ALSO MEASURED.

DATA AVAILABILITY:
AVAILABLE WITH THE PERMISSION OF THE COMMANDER OF EDGEWOOD ARSENAL

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS
SEVERAL HUNDRED PUNCHED CARDS

FUNDING:
U.S. ARMY

INVENTORY:

PUBLICATIONS:

CONTACT:
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ECOLOGY GROUP, BIOMEDICAL LABORATORY
EDGEWOOD ARSENAL
ABERDEEN PROVING GROUNDS MARYLAND USA 21010

GRID LOCATOR (LAT):
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 2 | STATIONS | | | HAWTHORNE COVE AND CARROLL POINT |
| TIME | EARTH | STATION TIME | YMDH | 74 | OBS | BIWEEKLY | SURFACE | 39 OBS AT HAWTHORNE COVE AND 35 OBS AT CARROLL POINT |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER OF INDIVIDUALS | 74 | OBS | BIWEEKLY | SURFACE | TWO HAULS PER STATIONS OF 4X100 FT 1/4 INCH MESH BEACH SEINE |
| SPECIES DETERMINATION | WATER | KEY | SPECIES NAME | 74 | OBS | BIWEEKLY | SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| OF PELAGIC FISH | | | | | | | | |
| LENGTH OF PELAGIC FISH | WATER | TOTAL LENGTH | MM | 74 | OBS | BIWEEKLY | SURFACE | |
| TOTAL CARBON DIOXIDE | WATER | TITRATION | PARTS PER MILLION | 74 | OBS | BIWEEKLY | SURFACE | |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL | UOHM PER CM2 | 74 | OBS | BIWEEKLY | SURFACE | |
| HARDNESS | WATER | EDTA TITRATION | PARTS PER MILLION | 74 | OBS | BIWEEKLY | SURFACE | |
| NITRATE | WATER | COLORIMETRY | PARTS PER MILLION | 74 | OBS | BIWEEKLY | SURFACE | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | PARTS PER MILLION | 74 | OBS | BIWEEKLY | SURFACE | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PARTS PER MILLION | 74 | OBS | BIWEEKLY | SURFACE | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 74 | OBS | BIWEEKLY | SURFACE | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | TURBIDITY UNITS | 74 | OBS | BIWEEKLY | SURFACE | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 74 | OBS | BIWEEKLY | SURFACE | |
| WATER LEVEL | WATER | VISUAL | FEET | 74 | OBS | BIWEEKLY | SURFACE | DIRECTION AND STAGE OF TIDE NOTED |

001697

# KINGS CREEK STUDY

DATA COLLECTED: OCTOBER 1973 TO JULY 1974



RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, BUSH RIVER ESTUARY, KINGS CREEK

ABSTRACT:
STATIONS WITHIN THE KINGS CREEK AREA OF THE BUSH RIVER ESTUARY ARE SAMPLED AT MONTHLY INTERVALS FOR MACROINVERTEBRATES AND CERTAIN WATER CHEMISTRY PARAMETERS, TO MONITOR WATER QUALITY.

DATA AVAILABILITY:
AVAILABLE WITH THE PERMISSION OF THE COMMANDER OF EDGEWOOD ARSENAL

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS; DATA SHEETS
50 PUNCHED CARDS

FUNDING:
U.S. ARMY

INVENTORY:

PUBLICATIONS:

CONTACT:
GARETH PEARSON, RESEARCH BIOLOGIST 301 671 2586
ECOLOGY GROUP, BIOMEDICAL LABORATORY
EDGEWOOD ARSENAL
ABERDEEN PROVING GROUNDS MARYLAND USA 21010

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 5 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDH | 20 | OBS | MONTHLY | | |
| COUNT OF PERIPHYTON ON BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS | 20 | OBS | MONTHLY | | FOULING ORGANISMS ON SUBMERGED ARTIFICAL SUBSTRATE |
| SPECIES DETERMINATION OF PERIPHYTON | WATER | KEY | SPECIES NAME | 20 | OBS | MONTHLY | | FOULING ORGANISMS ON SUBMERGED ARTIFICAL SUBSTRATE |
| TOTAL ALKALINITY | WATER | TITRATION | MILLIGRAMS PER | 20 | OBS | MONTHLY | SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | LITER | | | | | |
| CHLORIDE | WATER | TITRATION | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| CALCIUM | WATER | EDTA TITRATION | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| HARDNESS | WATER | EDTA TITRATION | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| COLOR | WATER | COLORIMETRY | COLOR UNITS | 20 | OBS | MONTHLY | SURFACE | |
| NITRATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| NITRITE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| SILICATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| SULFATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 20 | OBS | MONTHLY | SURFACE | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | TURBIDITY UNITS | 20 | OBS | MONTHLY | SURFACE | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 20 | OBS | RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH | SURFACE | |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MILLIGRAMS PER LITER | 20 | OBS | RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH | SURFACE | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 20 | OBS | RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH | SURFACE | |
| EH | WATER | SPECIFIC ION ELECTRODE | MILLIVOLTS | 20 | OBS | RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH | SURFACE | |
| BATHYMETRY | WATER | LEAD LINE | FEET | 20 | OBS | MONTHLY | SURFACE | |

CANAL CREEK STUDY
DATA COLLECTED: DECEMBER 1972 TO JULY 1974

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, MARYLAND, CHESAPEAKE BAY, GUNPOWDER R IVER ESTUARY, CANAL CREEK

ABSTRACT:
STATION WITHIN THE CANAL CREEK AREA OF THE GUNPOWDER RIVER ESTUARY A RE SAMPLED AT MONTHLY INTERVALS FOR MACROINVERTEBRATES AND CERTAIN WATER CHEMISTRY PARAMETERS, TO MONITOR WATER QUALITY

DATA AVAILABILITY:
AVAILABLE WITH THE PERMISSION OF THE COMMANDER OF EDGEWOOD ARSENAL

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS; DATA SHEETS
200 PUNCHED CARDS

FUNDING:
U.S. ARMY

INVENTORY:

PUBLICATIONS:
ECOLOGICAL RESEARCH OFFICE. 1975. RESULTS OF AQUATIC ECOLOGICAL SURVEYS OF CANAL CREEK, EDGEWOOD ARSENAL, ABERDEEN PROVING GROUNDS, MD (MANUSCRIPT)

CONTACT:
GARETH PEARSON, RESEARCH BIOLOGIST 301 671 2586
ECOLOGY GROUP, BIOMEDICAL LABORATORY
EDGEWOOD ARSENAL
ABERDEEN PROVING GROUNDS MARYLAND USA 21010

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 11 | STATIONS | | | 7 STATIONS CURRENTLY ACTIVE |
| TIME | EARTH | SAMPLING TIME | YMDHM | 150 | OBS | BIWEEKLY AND MONTHLY | | MOST RECENT SAMPLES ARE AT MONTHLY INTERVALS |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER OF INDIVIDUALS | 150 | OBS | BIWEEKLY AND MONTHLY | | ONLY THOSE INVERTEBRATES WHICH ARE RETAINED BY A |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | NO. 30 SIEVE; COLLECTED WITH DIP NET, PONAR GRAB, SURBER SAMPLER ARTIFICAL SUBSTRATE; ZOOPLANKTON ALSO COLLECTED |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | SPECIES NAME | 150 | OBS | BIWEEKLY AND MONTHLY | | ONLY THOSE INVERTEBRATES WHICH ARE RETAINED BY A NO. 30 SIEVE; COLLECTED WITH DIP NET, PONAR GRAB, SURBER SAMPLER ARTIFICAL SUBSTRATE; ZOOPLANKTON ALSO COLLECTED |
| TOTAL ALKALINITY | WATER | TITRATION | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| CHLORIDE | WATER | TITRATION | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| CALCIUM | WATER | EDTA TITRATION | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| HARDNESS | WATER | EDTA TITRATION | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| COLOR | WATER | COLORIMETRY | COLOR UNITS | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| NITRATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| NITRITE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| SILICATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| SULFATE | WATER | COLORIMETRY | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | TURBIDITY UNITS | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MILLIGRAMS PER LITER | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | RECORDED CONTINUOUSLY |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH |
| EH | WATER | SPECIFIC ION ELECTRODE | MILLIVOLTS | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP. CHART EACH MONTH |
| BATHYMETRY | WATER | LEAD LINE | FEET | 150 | OBS | BIWEEKLY AND MONTHLY | BOTTOM | |

VIMS HYDROGRAPHIC DATA BASE
DATA COLLECTED: JANUARY 1942 TO PRESENT


RECEIVED: JUNE 18, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY AND TRIBUTARIES

ABSTRACT:
ALL OCEANOGRAPHIC DATA GENERATED AT VIMS AND RECORDED ON VIMS OCEANOGRAPHY FORM 1 IS STORED IN THIS DATA BASE. UNTIL 1971 THE DATA BASE INCLUDES ONLY PHYSICAL MEASUREMENTS BUT AFTER THAT DATE PROVISION WAS MADE FOR RECORDING CHEMICAL DATA AS WELL. THE DATA IS STORED ON MAGNETIC DISC BUT IS RETRIEVED IN PRINTOUT FORM. EACH DATA POINT IS RECORDED WITH DAY, MONTH, YEAR, TIME, LATITUDE, LONGITUDE, RIVER CODE, DEPTH OF SAMPLE. DATA IS RETRIEVABLE BY STATION NUMBER, RIVER, YEAR, MONTH, DAY, PARAMETER RANGE OF YEARS, RANGE OF MONTHS, RANGE OF DAYS, CRUISE, VESSEL, TIDAL CURRENT STAGE, AREA DEFINED BY LAT AND LONG. THE SYSTEM HAS THE CAPACITY FOR ADDITIONAL INPUT OF PARAMETERS AS THEY ARE GENERATED AND RECORDED ON FORM 1

DATA AVAILABILITY:
COST OF COMPUTER RETRIEVAL PLUS FEE

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
MAGNETIC DISC
THIRTEEN VOLUMES OF DATA PRINTOUTS EACH APPROXIMATELY THREE INCHES THICK

FUNDING:
STATE OF VIRGINIA

INVENTORY:

PUBLICATIONS:
VIMS UNPUBLISHED DATA REPORT NO 5, OPERATION JAMES RIVER, SHIDLER AND MACINTYRE

CONTACT:
JOHN PLEASANTS   804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT  VIRGINIA USA  23062

GRID LOCATOR (LAT):
730765 730766 730775 730776 730785 730786 730795 730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LONGITUDE AND LATITUDE | 100000 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHM | 300000 | OBS | | | |
| TEMPERATURE | WATER | VARIOUS | DEG C | 250000 | OBS | | | THERMISTOR, XBT, REVERSING THERMOMETER, INFRARED SCANNER, MECHANICAL BT; |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | OBS ARE CODED BY INSTRUMENT |
| SALINITY | WATER | VARIOUS | PARTS PER THOUSAND | 250000 | OBS | | | RS-5, HYDROMETER , REFRACTOMETER , SALINOMETER, TITRATION, STD; OBS ARE CODED BY INSTRUMENT |
| CURRENT SPEED | WATER | VARIOUS | VARIOUS | 50000 | OBS | | | DYE STUDY, DRIFT DEVICE, IMPELLOR METER, NEUTRAL DENSITY FLOAT, SAVONIUS ROTOR METER; OBS ARE CODED BY INSTRUMENT |
| CURRENT DIRECTION | WATER | VARIOUS | DEGREES | 50000 | OBS | | | DYE STUDY, DRIFT DEVICE, IMPELLOR METER, NEUTRAL DENSITY FLOAT, SAVONIUS ROTOR METER; OBS ARE CODED BY INSTRUMENT |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | MG PER LITER | 20000 | OBS | | | |
| DISSOLVED OXYGEN GAS | WATER | VARIOUS | MG PER LITER | 50000 | OBS | | | TITRATION, SENSOR; CODED BY INSTRUMENT |
| NITRATE | WATER | VARIOUS | UG ATOMS/LITER | 1000 | OBS | | | |
| NITRITE | WATER | VARIOUS | UG ATOMS/LITER | 1000 | OBS | | | |
| PHOSPHORUS | WATER | VARIOUS | UG ATOMS/LITER | 500 | OBS | | | |
| NITROGEN | WATER | VARIOUS | UG ATOMS/LITER | 500 | OBS | | | |
| ORGANIC NITROGEN | WATER | VARIOUS | UG ATOMS/LITER | 500 | OBS | | | .KJELDAHL NITROGEN S- WATER M- VARIOUS U-UG ATOMS/LITER T- OBS 0-500 F- H- R- |
| AMMONIA | WATER | VARIOUS | UG ATOMS/LITER | 1000 | OBS | | | |
| PARTICULATE MATTER | WATER | VARIOUS | PPM | 500 | OBS | | | |

AN EVALUATION OF THE TOTAL PHOSPHORUS CONCENTRATIONS IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES

DATA COLLECTED: AUGUST 1968 TO SEPTEMBER 1969

RECEIVED: JUNE 18, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY, CANARY CREEK, MURDERKILL CREEK

ABSTRACT:
THE STUDY WAS UNDERTAKEN TO EXAMINE THE DISTRIBUTION OF TOTAL PHOSPHORUS AND ITS THREE MAJOR COMPONENTS, PARTICULATE PHOSPHORUS, DISSOLVED ORGANIC PHOSPHORUS, DISSOLVED INORGANIC PHOSPHORUS, OVER A 13 MONTH PERIOD IN TWO MARSHES IN RELATION TO SEASON ENVIRONMENTAL FLUX, AND TOPOGRAPHY. THE DATA GATHERED IS INCLUDED IN AN UNPUBLISHED M.S. THESIS LOCATED IN THE UNIVERSITY OF DELAWARE LIBRARY.
(DATA INCLUDED IN UNPUBL. M.S. THESIS, 1972, BY W GREGORY P. SHLOPAK )

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 114 PAGE THESIS

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 302 738 2455
MORRIS LIBRARY
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
T39795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 14 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDH | 76 | OBS | MONTHLY | | IN 22 SAMPLINGS WATER SAMPLES WERE OBTAINED AT HIGH SLACK WATER AND LOW SLACK WATER, IN 4 SAMPLINGS WATER SAMPLES |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | WERE COLLECTED EVERY 4 HOURS FOR 24 HOURS |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 26 | OBS | | | ONE AVERAGED VALUE FOR EACH SAMPLING |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 76 | OBS | | SURFACE | |
| SALINITY | WATER | CONDUCTIVITY | PPT | 76 | OBS | | SURFACE | HYTECH INDUCTION SALINOMETER |
| PH | WATER | PH METER | PH UNITS | 76 | OBS | | SURFACE | ORION SPECIFIC ION METER MODEL 401 |
| PHOSPHORUS | SUSPENDED | COLORIMETRY | UG-AT PER LITER | 76 | OBS | | SURFACE | |
| ORGANIC PHOSPHORUS | DISSOLVED | CALCULATED | UG-AT PER LITER | 76 | OBS | | SURFACE | |
| INORGANIC PHOSPHORUS | DISSOLVED | COLORIMETRY | UG-AT PER LITER | 76 | OBS | | SURFACE | |

DATA COLLECTED: JUNE 1968 TO OCTOBER 1968
RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
PRIMARY PRODUCTIVITY RATES WERE DETERMINED BY IN SITU LIGHT AND DARK BOTTLE MEASUREMENTS AT SEVERAL STATIONS NEAR THE UNFINISHED CALVERT CLIFFS NUCLEAR GENERATING PLANT ON THE CHESAPEAKE BAY.
(CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY )

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 25 PAGE REPORT

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 3 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 6 | OBS | TWICE | | STATIONS LOCATED NEAR UNCOMPLETED NUCLEAR GENERATING STATION |
| SALINITY | WATER | CONDUCTIVITY | PPT | 220 | OBS | | SURFACE AND BOTTOM | |
| PH | WATER | PH METER | PH UNITS | 220 | OBS | | SURFACE AND BOTTOM | |
| PHOTOSYNTHETIC | WATER | OXYGEN DETERMINAT | G O2 PER M2 PER | 220 | OBS | | SURFACE AND | LIGHT AND DARK |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| RATE | | ION | 9 HR | | | BOTTOM | BOTTLE TECHNIQUE |

DATA COLLECTED: JULY 1968 TO OCTOBER 1970 RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE RIVER

ABSTRACT:
TO DETERMINE THE EFFECTS OF THERMAL DISCHARGES BY THREE POWER PLANTS LOCATED ON THE DELAWARE RIVER BETWEEN TRENTON N.J. AND THE PA. - DEL. LINE, TWELVE SAMPLING STATIONS WERE USED TO OBTAIN WATER SAMPLES FOR ZOOPLANKTON, PHYTOPLANKTON AND BACTERIAL COUNTS AND MEASUREMENT OF CERTAIN NUTRIENTS.
(CONTRACT WORK DONE FOR THE INSTITUTE FOR THE DEVELOPMENT OF RIVERINE AND ESTUARINE SYSTEMS)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
TWO REPORTS: ONE 25 PAGES AND ONE 50 PAGES

FUNDING:
INSTITUTE FOR THE DEVELOPMENT OF RIVERINE AND ESTUARINE SYSTEMS

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 12 | STATIONS | | | 4 SAMPLING STATIONS LOCATED NEAR EACH OF 3 POWER PLANTS |
| TIME | EARTH | STATION TIME | YMD | 266 | OBS | MONTHLY | | 23 MONTHLY SAMPLINGS AT 12 STATIONS |
| SPECIES DETERMINATION OF PHYTOPLANKTO | WATER | KEY | PRESENCE OR ABSENCE BY SPECIES | 266 | OBS | MONTHLY | SURFACE AND BOTTOM | 20 LITERS OF WATER PUMPED THROUGH A NO. |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| N | | | | | | | 20 MESH NET THEN FILTERED AND COUNTED |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | PRESENCE OR ABSENCE BY SPECIES | 266 OBS | MONTHLY | SURFACE AND BOTTOM | 20 LITERS OF WATER PUMPED THROUGH A NO. 20 MESH NET THEN FILTERED AND COUNTED |
| COUNT OF MICROBIOTA | WATER | VISUAL | PLATE COUNT | 266 OBS | MONTHLY | | TOTAL BACTERIA AND COLIFORM BACTERIA |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | PPM | 266 OBS | MONTHLY | | |
| NITRATE | WATER | SPECTROPHOTOMETRY | PPM | 266 OBS | MONTHLY | | |
| AMMONIA | WATER | SPECTROPHOTOMETRY | PPM | 266 OBS | MONTHLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PPM | 266 OBS | MONTHLY | | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PPM | 266 OBS | MONTHLY | | |
| CHLORINE | WATER | TITRATION | PPM | 266 OBS | MONTHLY | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 266 OBS | MONTHLY | | |

DATA COLLECTED: JANUARY 1969 TO PRESENT

RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE PROPOSED NUCLEAR GENERATING STATION AT CALVERT CLIFFS, MARYLAND ARE ANALYSED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY IN THE FORM OF YEARLY CONTRACT REPORTS BY THE PHILA. ACADEMY. (CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY )

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
YEARLY REPORTS EACH APPROXIMATELY 100 PAGES

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 5 | STATIONS | | | LOCATED ALONG 30 FT DEPTH CONTOUR NEAR SHORE |
| TIME | EARTH | STATION TIME | YMD | 350 | OBS | MONTHLY | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| CHLORIDE | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | BECKMAN ZEROMATIC METER |
| SALINITY | WATER | CONDUCTIVITY | PPT | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| SILICATE | WATER | COLORIMETRY | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| SULFATE | WATER | GRAVIMETRY | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| PHOSPHATE | WATER | COLORIMETRY | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE. |
| NITRATE | WATER | COLORIMETRY | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| NITRITE | WATER | COLORIMETRY | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| AMMONIA | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| HARDNESS | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | TOTAL, CALCIUM, MAGNESIUM |
| PHENOLPHTHALEIN ALKALINITY | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| TOTAL ALKALINITY | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | METHYL PURPLE INDICATOR |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | STANDARD METHODS PROCEDURE |
| CALCIUM | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | CALCULATED FROM CA HARDNESS VALUES |
| MAGNESIUM | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | CALCULATED FROM MG HARDNESS VALUES |
| CARBONATE ALKALINITY | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND BOTTOM | CALCULATED FROM PHENOLPHTHALEIN ALKALINITY |
| BICARBONATE | WATER | TITRATION | PPM | 700 | OBS | MONTHLY | SURFACE AND | CALCULATED FROM |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| ALKALINITY | | | | | | | BOTTOM | METHYL PURPLE ALKALINITY |
| COUNT OF MICROBIOTA | WATER | VISUAL | NUMBER PER 100 ML | 350 | OBS | MONTHLY | SURFACE | TOTAL COLIFORM AND PRESUMPTIVE COLIFORM |
| IRON | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| MANGANESE | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| SODIUM | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| POTASSIUM | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| STRONTIUM | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| COBALT | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| COPPER | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| NICKEL | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| LEAD | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| ZINC | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| CALCIUM | WATER | SPECTROPHOTOMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| CADMIUM | WATER | COLORIMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | BAUSCH AND LOMB SPECTRONIC 100 |
| BORON | WATER | COLORIMETRY | PPM | 350 | OBS | MONTHLY | SURFACE | |

CHARACTERISTICS OF MARSH SOILS IN THE PATUXENT RIVER
DATA COLLECTED: JUNE 1971 TO AUGUST 1971


RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, PATUXENT RIVER, COASTAL

ABSTRACT:
STANDARD SOILS ANALYSIS AT 31 SITES ALONG THE PATUXENT RIVER MARSH SYSTEM. USED 3 INCH AUGER BUCKET WITH 6 BORINGS PER SITE TO A DEPTH OF 42 INCHES. SOIL CLASSIFICATION, NUTRIENTS, CHEMISTRY, AND CLAY MINERALOGY DATA INCLUDED IN FILE. RELATE MARSH VEGETATION TO SEDIMENT PROFILE CHARACTERISTICS.
(MS THESIS 1973 J. C. BAXTER, AGRONOMY DEPARTMENT)

DATA AVAILABILITY:
INTERLIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
92 PAGES

FUNDING:
UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 31 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 31 | STATIONS | | | |
| SIZE ANALYSIS | SEDIMENT | SETTLING/ WEIGHING | PERCENT | 19 | OBS | | BORING 42 INCHES DEEP | PROFILE AT MARSH SITES |
| REACTIVE PHOSPHATE | SEDIMENT | SPECTROPHOTOMETRY | PPM | 158 | OBS | | | |
| POTASSIUM | SEDIMENT | FLAME SPECTROMETR Y | PPM | 158 | OBS | | | |
| CALCIUM | SEDIMENT | FLAME SPECTROMETR Y | PPM | 158 | OBS | | | |
| MAGNESIUM | SEDIMENT | COLORIMETRY | PPM | 158 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PH | INTERSTITIAL | SPECIFIC ION ELECTRODE | PH UNITS | 574 | OBS | | | PROFILE AT MARSH SITES |
| ELECTRICAL CONDUCTIVITY | SEDIMENT | LAB CONDUCTIVITY CELL | MHOS | 140 | OBS | | | |
| ORGANIC CARBON | SEDIMENT | WET COMBUSTION/ GAS DISPLACEMENT | PERCENT | 140 | OBS | | | |
| PHOSPHORUS | SEDIMENT | SPECTROPHOTOMETRY | PPM | 210 | OBS | | | TECHNICON AUTOANALYZER |
| POTASSIUM | SEDIMENT | FLAME SPECTROMETR Y | PPM | 210 | OBS | | | |
| MAGNESIUM | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PPM | 210 | OBS | | | |
| CALCIUM | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | PPM | 210 | OBS | | | .KJELDAHL NITROGEN S- SEDIMENT M- COLORIMETRY U- PPM T-OBS Q- 140 F- H- R- |
| SULFUR | SEDIMENT | GRAVIMETRY | PPM | 30 | OBS | | | |
| MINERALOGY | SEDIMENT | X-RAY DIFFRACTION | SIZE DISTRIBUTIO N AND COMPOSITI ON BY TYPE | 21 | OBS | | | GLAUCONITE, QUARTZ, MICA, VERMICULITE, MONTMORILLONITE , CHLORITE, KOLINITE; SIZE CLASSES, 2 TO 5, 2 TENTHS TO 2, AND LESS THAN 2 TENTHS MICRONS |

002446

CHESAPEAKE BAY, CALVERT CLIFFS SURVEY REPORTS FOR THE BALTIMORE GAS AND ELECTRIC COMPANY

DATA COLLECTED: JUNE 1968 TO PRESENT



RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
TO DETERMINE THE ECOSYSTEM STRUCTURE AND ITS ECOLOGICAL CHARACTERISTICS, PARTICULARLY DIVERSITY, IN CERTAIN SELECTED, SHALLOW-WATER AREAS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR GENERATING STATION A BAY SURVEY IS BEING CARRIED OUT INCLUDING BIOLOGICAL, CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL STUDIES OF THE WATER. THE STUDY IS TO DETERMINE A BASE LINE PICTURE OF CHESAPEAKE BAY CONDITIONS BEFORE PLANT OPERATIONS BEGIN.
(CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY )

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
FIVE 50 PAGE YEARLY REPORTS

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP | 4 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHM | 40 | OBS | TWICE PER YEAR | | |
| SPECIES DETERMINATION OF BENTHIC PLANTS | BOTTOM | KEY | NUMBER OF SPECIES PER CLASS | 40 | OBS | TWICE PER YEAR | SHORE ZONE | ALGAE OBTAINED BY VARIED TECHNIQUES |
| SPECIES DETERMINATION | WATER | KEY | SPECIES, CLASS, TYPE | 40 | OBS | TWICE PER YEAR | SHORE ZONE | PROTOZOA OBTAINED BY |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| OF MICROBIOTA | | | | | | | | COLLECTING VARIOUS SUBSTRATES THAT WOULD PROVIDE MICROHABITATS; PLANKTON TOWS ALSO USED |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | NUMBER OF SPECIES PER STATION | 40 | OBS | TWICE PER YEAR | SHORE ZONE | VARIOUS COLLECTING MECHANISMS USED TO SAMPLE ALL BOTTOM TYPES |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | NUMBER OF SPECIES PER STATION | 40 | OBS | TWICE PER YEAR | SHORE ZONE | 50 FT BAG SEINE WITH ONE-HALF INCH MESH USED; DENDROGRAMS OF SPECIES ASSOCIATIONS PRESENTED |
| TOTAL ALKALINITY | WATER | TITRATION | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| LIGHT ATTENUATION | WATER | COLORIMETRY | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| CHLORIDE | WATER | TITRATION | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| SULFATE | WATER | TITRATION | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| SILICATE | WATER | COLORIMETRY | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| BICARBONATE ALKALINITY | WATER | CALCULATED | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| CARBONATE ALKALINITY | WATER | CALCULATED | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| PH | WATER | COLORIMETRY | PH UNITS | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL | MICROMHOS | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| SODIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PPM | 400 OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| POTASSIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | PPM | 400 OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| IRON | WATER | ATOMIC ABSORPTION SPECTROMETRY | PPM | 400 OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| MANGANESE | WATER | ATOMIC ABSORPTION SPECTROMETRY | PPM | 400 OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| COUNT OF MICROBIOTA | WATER | VISUAL | COLONIES PER VOLUME SAMPLE | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | TOTAL BACTERIA, COLIFORM BACTERIA |
| PHOSPHATE | WATER | COLORIMETRY | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| NITRATE | WATER | COLORIMETRY | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| NITRITE | WATER | COLORIMETRY | PPM | 400 | OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| AMMONIA | WATER | COLORIMETRY | PPM | 400 OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED .KJE LDAHL NITROGEN S-WATER M- COLORIMETRY U- PPM T-OBS Q- 400 F-DAILY FOR ONE WEEK H- SURFACE R- SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |
| TOTAL SOLIDS | WATER | DRY WEIGHT | PPM | 400 OBS | DAILY FOR ONE WEEK | SURFACE | SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED |

002716 EUTROPHICATION STUDIES IN THE PAMLICO RIVER, ALBERMARLE SOUND, AND NEUSE RIVER, NORTH CAROLINA. 

DATA COLLECTED: JANUARY 1966 TO PRESENT

RECEIVED: DECEMBER 05, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL, U.S., NORTH CAROLINA, PAMLICO RIVER, ALBERMARLE SOUND, NEUSE RIVER

ABSTRACT:
EUTROPHICATION STUDIES FOR THE PAMLICO RIVER WERE BEGUN IN 1966, FOR THE ALBEMARLE SOUND AND NEUSE RIVER STUDIES WERE BEGUN IN 1970. PARAMETERS MONITORED INCLUDE, TEMPERATURE, SALINITY, DISSOLVED OXYGEN, PHOSPHORUS, NITROGEN, AND CHLOROPHYLL. 30 STATIONS IN THE PAMLICO WERE SAMPLED BIWEEKLY, 15 STATIONS IN THE NEUSE RIVER, AND 15 STATIONS IN THE ALBEMARLE SOUND WERE SAMPLED MONTHLY.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; PUNCHED CARDS
7000 PUNCHED CARDS

FUNDING:

INVENTORY:

PUBLICATIONS:
THERE ARE 8 PUBLICATIONS ASSOCIATED WITH THIS FILE. CONTACT PRINCIPLNE INVESTIGATOR FOR SPECIFIC PUBLICATIONS.

CONTACT:
JOHN E. HOBBIE 919 737 2589
NORTH CAROLINA STATE UNIVERSITY
DEPARTMENT OF ZOOLOGY
RALEIGH NORTH CAROLINA USA 27607

GRID LOCATOR (LAT):
730755 730756 730765 730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 60 | STATIONS | | | LATITUDE AND LONGITUDE |
| TIME | EARTH | STATION TIME | YMDH | 60 | OBS | 2 OBS/WEEK | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 60 | OBS | 2 OBS/WEEK | SURFACE AND BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PPT | 60 | OBS | 2 OBS/WEEK | SURFACE AND BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG/L | 60 | OBS | 2 OBS/WEEK | SURFACE AND BOTTOM | |
| ORGANIC | WATER | SPECTROPHOTOMETRY | UG-AT/L | 60 | OBS | 2 OBS/WEEK | SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PHOSPHORUS ORGANIC | DISSOLVED | SPECTROPHOTOMETRY | UG-AT/L | 60 | OBS | 2 OBS/WEEK | SURFACE | |
| PHOSPHORUS ORGANIC | SUSPENDED | AUTOANALYZER | UG-AT/L | 60 | OBS | 2 OBS/WEEK | SURFACE | |
| PHOSPHORUS ORGANIC | WATER | SPECTROPHOTOMETRY | UG-AT/L | 60 | OBS | 2 OBS/WEEK | SURFACE | |
| NITROGEN NITRATE | WATER | COLORIMETRY | UG-AT/L | 60 | OBS | 2 OBS/WEEK | SURFACE | |
| AMMONIA | WATER | SPECTROPHOTOMETRY | UG-AT/L | 60 | OBS | 2 OBS/WEEK | SURFACE | |
| TOTAL CHLOROPHYL L | WATER | SPECTROPHOTOMETRY | UG CHLOROPHYLL/ L | 60 | OBS | 2 OBS/WEEK | SURFACE | |

DATA COLLECTED: JULY 1973 TO PRESENT

RECEIVED: NOVEMBER 04, 1974

PROJECTS:
DELAWARE RIVER ANADROMOUS FISHERIES STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE RIVER BASIN

ABSTRACT:
FISH WERE SAMPLED MONTHLY FROM 21 STATIONS IN THE DELAWARE RIVER TRIBUTARIES EMPLOYING OTTER TRAWL, FRAME TRAWL, AND HALL SEINE. CHLORINE, PH, TURBIDITY, ORTHOPHOSPHATE, NITRATE, CARBON DIOXIDE, HARDNESS, ALKALINITY, DISSOLVED OXYGEN, AND TEMPERATURE WERE MONITORED.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
500 DATA SHEETS

FUNDING:
ANADROMOUS FISH ACT PL. 89-304.

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH P. MILLER 609 397 0115
DELAWARE RIVER BASIN, ANADROMOUS FISHERIES STUDY
P.O. BOX 95
ROSEMONT NEW JERSEY USA 08556

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 21 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHM | 21 | OBS | MONTHLY | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | | 21 | OBS | MONTHLY | | |
| COUNT OF PELAGIC FISH | WATER | VISUAL | | 21 | OBS | MONTHLY | | |
| LENGTH OF PELAGIC FISH | WATER | TOTAL LENGTH | MILLIMETER | 21 | OBS | MONTHLY | | FISH SAMPLES WERE COLLECTED |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | USING 16 FOOT OTTER TRAWL, 4 BY 12 FOOT FRAME TRAWL, AND 125 FOOT HAUL SEINE |
| TOTAL OXIDANTS | WATER | COLORIMETRY | PARTS PER MILLION | 21 | OBS | MONTHLY | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG F | 21 | OBS | MONTHLY | | |
| TOTAL ALKALINITY | WATER | TITRATION | PARTS PER MILLION | 21 | OBS | MONTHLY | | |
| TOTAL CARBON DIOXIDE | WATER | TITRATION | PARTS PER MILLION | 21 | OBS | MONTHLY | | |
| HARDNESS | WATER | TITRATION | PARTS PER MILLION | 21 | OBS | MONTHLY | | |
| NITRATE | WATER | COLORIMETRY | PARTS PER MILLION | 21 | OBS | MONTHLY | | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | PARTS PER MILLION | 21 | OBS | MONTHLY | | |
| LIGHT ATTENUATIO N | WATER | COLORIMETRY | | 21 | OBS | MONTHLY | | |
| PH | WATER | COLORIMETRY | | 21 | OBS | MONTHLY | | |
| CHLORINITY | WATER | TITRATION | PARTS PER MILLION | 21 | OBS | MONTHLY | RY | |

DATA COLLECTED: SEPTEMBER 1970 TO AUGUST 1971

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, DELAWARE, DELAWARE BAY

ABSTRACT:
SURFACE HOLOCENE SEDIMENT SAMPLES FROM MIDDLE DELAWARE BAY AND CORED HOLOCENE SAMPLES FROM LOWER DELAWARE BAY HAVE BEEN STUDIED IN A PRELIMINARY WAY FOR GENERAL SEDIMENT CHARACTERISTICS, PH, EH, ORGANIC CARBON, CARBOHYDRATES, AMINO ACIDS, HYDROCARBONS, CHLOROPHYLL-DERIVED PIGMENTS, CAROTENOID PIGMENTS, AND HUMIC ACIDS. SAMPLES FROM A CORE NEAR WILMINGTON CANYON ON THE CONTINENTAL SLOPE OFF DELAWARE BAY WERE ANALYZED FOR ORGANIC CARBON AND CARBOHYDRATES.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
44 PAGE REPORT

FUNDING:
NOAA, OFFICE OF SEA GRANT NO. 2-35223

INVENTORY:

PUBLICATIONS:

CONTACT:
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COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730784 730785 730794 730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | UNKNOWN | DMT | 60 | STATIONS | | | |
| TIME | EARTH | STATION TIME | | 60 | STATIONS | | | |
| PH | INTERSTITIAL | SPECIFIC ION ELECTRODE | | 60 | STATIONS | | | |
| EH | INTERSTITIAL | SPECIFIC ION ELECTRODE | | 60 | STATIONS | | | |
| ORGANIC CARBON | SEDIMENT | SPECTROPHOTOMETRY | | 60 | STATIONS | | | |
| CALCIUM CARBONATE | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | | 60 | STATIONS | | | |
| CARBOHYDRATES | SEDIMENT | COLORIMETRY | | 60 | STATIONS | | | |
| AMINO ACIDS | SEDIMENT | SPECTROPHOTOMETRY | | 60 | STATIONS | | | |
| PHAEOPHYTIN A | SEDIMENT | SPECTFOPHOTOMETRY | | 60 | STATIONS | | | |
| HUMIC ACIDS | SEDIMENT | COLUMN CHROMATOGR | | 60 | STATIONS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | APHY | | | | | |
| DEPTH | WATER | WIRE LENGTH | | 60 STATIONS | | | |
| WATER CONTENT | SEDIMENT | GRAVIMETRY | | 60 STATIONS | | | |
| SIZE ANALYSIS | SEDIMENT | VISUAL | | 60 STATIONS | | | |

PHYTOPLANKTON RESPONSE TO WATER QUALITY IN THE CHOWAN RIVER ESTUARY
DATA COLLECTED: MARCH 1974 TO PRESENT



RECEIVED: MARCH 13, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, COASTAL, CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR WATER QUALITY AND HOW IT AFFECTS POPULATIONS OF PHYTOPLANKTON IN THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
1000 DATA SHEETS

FUNDING:
WATER RESOURCES RESEARCH INSTITUTE OF THE UNIVERSITY OF NORTH CAROLINA

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A.M. WITHERSPOON 919 737 2589
NORTH CAROLINA STATE UNIVERSITY
DEPARTMENT OF BOTANY
RALEIGH NORTH CAROLINA USA 27607

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 23 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDHL | 23 | OBS | BIMONTHLY | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 23 | OBS | BIMONTHLY | SURFACE AND BOTTOM | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 23 | OBS | BIMONTHLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 23 | OBS | BIMONTHLY | SURFACE AND BOTTOM | WINKLER |
| NITRATE | WATER | AUTOANALYZER | | 23 | OBS | BIMONTHLY | | |
| NITRITE | WATER | AUTOANALYZER | | 23 | OBS | BIMONTHLY | | |
| AMMONIA | WATER | AUTOANALYZER | | 23 | OBS | BIMONTHLY | | |
| PHOSPHORUS | WATER | AUTOANALYZER | | 23 | OBS | BIMONTHLY | | |
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | NEAREST DECIMETER | 23 | OBS | BIMONTHLY | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| GAMMA ACTIVITY | WATER | PROPORTIONAL COUNTER | | 23 | OBS | BIMONTHLY | SURFACE | |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER PER SAMPLE | 23 | OBS | BIMONTHLY | SURFACE AND MIDWATER | |
| BIOMASS OF PHYTOPLANKTON | WATER | DRY WEIGHT | GRAMS | 23 | OBS | BIMONTHLY | SURFACE AND MIDWATER | |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | | 23 | OBS | BIMONTHLY | | |

DATA COLLECTED: JULY 1974 TO PRESENT RECEIVED: MARCH 13, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, COASTAL CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR CHEMICAL AND WASTE POLLUTION AND ITS RUNOFF INTO THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
250 DATA SHEETS

FUNDING:
US EPA

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A.M. WITHERSPOON 919 737 2589
NORTH CAROLINA STATE UNIVERSITY
DEPARTMENT OF BOTANY
RALEIGH NORTH CAROLINA USA 27607

200

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 10 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHML | 10 | OBS | WEEKLY | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 10 | OBS | WEEKLY | SURFACE AND BOTTOM | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 10 | OBS | WEEKLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 10 | OBS | WEEKLY | SURFACE AND BOTTOM | WINKLER |
| NITRATE | WATER | AUTOANALYZER | | 10 | OBS | WEEKLY | | |
| NITRITE | WATER | AUTOANALYZER | | 10 | OBS | WEEKLY | | |
| AMMONIA | WATER | AUTOANALYZER | | 10 | OBS | WEEKLY | | |
| PHOSPHORUS | WATER | AUTOANALYZER | | 10 | OBS | WEEKLY | | |
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | NEAREST DECIMETER | 10 | OBS | WEEKLY | | |
| GAMMA ACTIVITY | WATER | PROPORTIONAL | | 10 | OBS | WEEKLY | SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| COUNT OF PHYTOPLANKTON | WATER | COUNTER COUNTING CHAMBER | NUMBER PER SAMPLE | 10 | OBS | WEEKLY | SURFACE AND MIDWATER | |
| BIOMASS OF PHYTOPLANKTON | WATER | DRY WEIGHT | GRAMS | 10 | OBS | WEEKLY | SURFACE AND MIDWATER | |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | | 10 | OBS | WEEKLY | SURFACE AND MIDWATER | |
| PRECIPITATION AMOUNT | AIR | RAIN GAGE | | 10 | OBS | WEEKLY | | |
| CURRENT SPEED | WATER | IMPELLOR METER | | 10 | OBS | WEEKLY | | |
| FLUORINE | WATER | SPECIFIC ION ELECTRODE | | 10 | OBS | WEEKLY | | |
| WEATHER | AIR | VISUAL | | 10 | OBS | WEEKLY | | |

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND, CHESAPEAKE BAY

ABSTRACT:
INVESTIGATION INTO PHYTOPLANKTON ECOLOGY IN THE RHODE, SOUTH, WEST RIVERS, AND THE CHESAPEAKE BAY. DATA INCLUDES SPECIES DETERMINATION AND COUNTS FOR PHYTO AND ZOOPLANKTON, PRODUCTIVITY, HETEROTROPHY, NUTRIENTS, AND PHYSO-CHEMICAL PROPERTIES. (WRITE DR. SELIGER FOR BIBLIOGRAPHIC LISTING )

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
600 SHEETS

FUNDING:
JOHNS HOPKINS UNIVERSITY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. H.H. SELIGER 301 366 3300
JOHNS HOPKINS UNIVERSITY
DEPARTMENT OF BIOLOGY
BALTIMORE MARYLAND USA 21218

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 10 STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDH | 10 OBS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 10 OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PPT | 10 OBS | | | |
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | METERS | 10 OBS | | | |
| LIGHT ATTENUATIO N | WATER | IN SITU TRANSMISSOMETER | PHOTONS/SQ CM/ SEC/NM | 10 OBS | | | |
| AMMONIA | WATER | TITRATION | MICRO-MOLES | 10 OBS | | | |
| NITRATE | WATER | TITRATION | MICRO-MOLES | 10 OBS | | | |
| NITRITE | WATER | TITRATION | MICRO-MOLES | 10 OBS | | | |
| PHOSPHORUS | WATER | COLORIMETRY | MICRO-MOLES | 10 OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PPM AND MG/L | 10 OBS | | | |
| ORGANIC CARBON | WATER | WET COMBUSTION/ TITRATION | MG/L | 10 OBS | | | |
| CARBON-14 | WATER | MASS SPECTROMETRY | | 10 OBS | | | |
| HETEROTROPHIC RATE | WATER | LIQUID SCINTILLAT ION UNILUXI | | 10 OBS | | | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | | 10 OBS | | | |
| COUNT OF ZOOPLANKTON | WATER | MICROSCOPE | NUMBER/SPECIES/ SAMPLE | 10 OBS | | | PREDATION RATE INCLUDED AND REPORTED AS ML/ HR/ORGANISM |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | | 10 OBS | | | |
| COUNT OF PHYTOPLANKTON | WATER | MICROSCOPE | NUMBER/SPECIES/ SAMPLE | 10 OBS | | | |
| TOTAL CHLOROPHYL L | WATER | FLUOROMETRY | MICROGRAMS/ LITER | 10 OBS | | | |
| BIOLUMINESCENCE OCCURRENCE | WATER | FLUOROMETRY | MICROGRAMS/ LITER | 10 OBS | | | |
| PHOTOSYNTHETIC RATE | WATER | CARBON-14 UPTAKE | MICROGRAMS CHLOROPHYLL/ LITER/HOUR | 10 OBS | | | |

003528

MICROBIOLOGICAL ANALYSIS OF ESTUARINE ENVIRONMENTS
DATA COLLECTED: JANUARY 1964 TO PRESENT



RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND, CHESAPEAKE BAY

ABSTRACT:
ANALYSIS OF CHESAPEAKE BAY SEDIMENTS FOR BACTERIA AND VIRAL COMPONENTS WITH ANCILLARY DATA ON WATER TEMPERATURE, D.O., SALINITY, AND NUTRIENTS.

DATA AVAILABILITY:
COST OF REPRODUCTION IF SPECIFIC REPRINTS ARE NOT AVAILABLE, OR FOR TRANSFER OF RAW DATA

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; PUNCHED CARDS
50,000 PUNCHED CARDS; 1 MAGNETIC TAPE

FUNDING:
UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:
APPROXIMATELY 100 PAPERS HAVE BEEN PUBLISHED AND REPRINTS OF MOST ARE AVAILABLE, WRITE DR. COLWELL

CONTACT:
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UNIVERSITY OF MARYLAND
DEPARTMENT OF MICROBIOLOGY
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786 730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 20 STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDH | 20 OBS | MONTHLY | | |
| SPECIES DETERMINATION OF MICROBIOTA | SEDIMENT | KEY | | 20 OBS | MONTHLY | BOTTOM | |
| COUNT OF MICROBIOTA | SEDIMENT | VISUAL | NUMBER PER ML | 20 OBS | MONTHLY | BOTTOM | |
| SPECIES DETERMINATION OF MICROBIOTA | WATER | KEY | | 20 OBS | MONTHLY | BOTTOM | |
| COUNT OF | WATER | VISUAL | NUMBER PER ML | 20 OBS | MONTHLY | BOTTOM | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| MICROBIOTA | | | | | | | | |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 20 | OBS | MONTHLY | BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PPT | 20 | OBS | MONTHLY | BOTTOM | |
| NITROGEN | WATER | AUTOANALYZER | GRAMS PER LITER | 20 | OBS | MONTHLY | BOTTOM | |
| PHOSPHORUS | WATER | AUTOANALYZER | GRAMS PER LITER | 20 | OBS | MONTHLY | BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | GRAMS PER LITER | 20 | OBS | MONTHLY | BOTTOM | |
| CARBON | WATER | WET COMBUSTION/ GAS DISPLACEMENT | GRAMS PER LITLR | 20 | OBS | MONTHLY | BOTTOM | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 20 | OBS | MONTHLY | | |

DATA COLLECTED: JUNE 1974 TO JULY 1974
RECEIVED: MAY 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, KITTY HAWK BAY

ABSTRACT:
A STUDY OF METABOLISM IN A EURASIAN WATER MILFOIL COMMUNITY. WATER MONITORING INCLUDES DISSOLVED OXYGEN, NITRATE, AMMONIA, NITRITE, AND PHOSPHORUS AT KITTY HAWK BAY, NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
THIRTY PAGES

FUNDING:
EAST CAROLINA UNIVERSITY

INVENTORY:

PUBLICATIONS:
HALL, A. 1975. COMMUNITY METABOLISM IN A EURASIAN WATER MILFOIL COMMUNITY. M.S. THESIS

CONTACT:
LIBRARIAN 19 758 6718
EAST CAROLINA UNIVERSITY
DEPARTMENT OF BIOLOGY
GREENVILLE NORTH CAROLINA USA 27834

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 2 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHML | 2 | STATIONS | WEEKLY | | EIGHT TWENTY-FOUR HOUR STATIONS IN TWO MONTHS WITH SAMPLES EVERY THREE HOURS DURING TWENTY-FOUR HOUR PERIOD |
| SPECIES DETERMINATION | BOTTOM | KEY | | 2 | STATIONS | WEEKLY | | EURASIAN WATER MILFOIL |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| OF BENTHIC PLANTS | | | | | | | |
| COUNT OF BENTHIC PLANTS | BOTTOM | VISUAL | NUMBER PER SPECIES | 2 STATIONS | WEEKLY | | EURASIAN WATER MILFOIL |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAMS PER LITER | 2 STATIONS | WEEKLY | BOTTOM | WINKLER |
| NITRATE | WATER | TITRATION | | 2 STATIONS | WEEKLY | | |
| AMMONIA | WATER | TITRATION | | 2 STATIONS | WEEKLY | | |
| NITRITE | WATER | TITRATION | | 2 STATIONS | WEEKLY | | |
| PHOSPHORUS | WATER | COLORIMETRY | | 2 STATIONS | WEEKLY | | |

SUBSTRATE SELECTIVE PROPERTIES OF MARSH PLANTS
DATA COLLECTED: AUGUST 1973 TO 1976

RECEIVED: JULY 31, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., BAR HARBOR MAINE, LEWIS DELAWARE, SAPELO ISLAND GEORGIA

ABSTRACT:
AN INVESTIGATION OF THE RELATIONSHIP BETWEEN SALT MARSH PLANTS AND SEDIMENT CHEMISTRY IS BEING CONDUCTED. STATIONS ARE IN MAINE, NEW JERSEY, AND GEORGIA. 10 DOMINANT PLANT SPECIES ARE CORRELATED WITH SOIL COLOR, DENSITY, TEXTURE, PH, SALINITY, TEMPERATURE, ORGANIC CARBON, MANGANESE, IRON, POTASSIUM, PHOSPHORUS, CHLORIDE, AMMONIA, NITRITE, NITRATE, AND TOTAL NITROGEN.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION .

ARCHIVE MEDIA:
DATA SHEETS
2000 PAGES

FUNDING:
NATIONAL SCIENCE FOUNDATION; UNIVERSITY OF GEORGIA

INVENTORY:

PUBLICATIONS:

CONTACT:
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UNIVERSITY OF GEORGIA
MARINE INSTITUTE
SAPELO ISLAND GEORGIA USA 31327

GRID LOCATOR (LAT):
740648 730785 730811

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 16 | STATIONS | BIMONTHLY | | |
| TIME | EARTH | STATION TIME | YMD | 16 | STATIONS | BIMONTHLY | | FIVE STATIONS AT BAR HARBOR, FIVE STATIONS AT LEWIS, SIX STATIONS AT SAPELO ISLAND |
| SPECIES DETERMINATION OF BENTHIC PLANTS | LAND | KEY | | 16 | STATIONS | BIMONTHLY | | |
| COLOR | SEDIMENT | VISUAL | MUSEUM COLOR | 16 | STATIONS | BIMONTHLY | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | CHIPS | | | | | |
| PH | WATER | PH METER | PH UNITS | 16 | STATIONS | BIMONTHLY | | |
| SALINITY | WATER | INDEX OF REFRACTION | PPT | 16 | STATIONS | BIMONTHLY | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 16 | STATIONS | BIMONTHLY | | |
| DENSITY | SEDIMENT | BULK SPECIFIC GRAVITY | GRAMS | 16 | STATIONS | BIMONTHLY | | |
| GRAIN TEXTURE | SEDIMENT | VISUAL | STANDARD UNITS | 16 | STATIONS | BIMONTHLY | | |
| NITROGEN | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| NITRATE | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| NITRITE | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| AMMONIA | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| CHLORIDE | INTERSTITIAL | TITRATION | | 16 | STATIONS | BIMONTHLY | | |
| ORGANIC CARBON | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| IRON | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| MANGANESE | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| POTASSIUM | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |
| PHOSPHORUS | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 16 | STATIONS | BIMONTHLY | | |

003828 SPARTINA ENVIRONMENTAL PHYSIOLOGY PAGE 01

DATA COLLECTED: AUGUST 1972 TO 1976 RECEIVED: JULY 31, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MAINE TO SOUTH CAROLINA

ABSTRACT:
AN INVESTIGATION OF SALT MARSH PLANT PHYSIOLOGY WITH STATIONS IN MAINE, NEW JERSEY, VIRGINIA, NORTH AND SOUTH CAROLINA IS BEING CONDUCTED. ANALYSIS OF THE 15 DOMINANT PLANT SPECIES INCLUDES POTASSIUM, PHOSPHORUS, CALCIUM, MANGANESE, IRON, ALUMINUM, BORON, PROTEIN, AND CARBOHYDRATES IN BIO MATERIAL ANCILLARY DATA INCLUDES SEDIMENT TEMPERATURE, SALINITY AND TOTAL DISSOLVED ORGANIC CARBON.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
4 FIFTY PAGES NOTEBOOKS

FUNDING:
NATIONAL SCIENCE FOUNDATION; UNIVERSITY OF GEORGIA

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN L. GALLAGHER 912 352 1631
UNIVERSITY OF GEORGIA
MARINE INSTITUTE
SAPELO ISLAND GEORGIA USA 31327

GRID LOCATOR (LAT):
740648 730786 730765 730747 730729

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 7 | STATIONS | ANNUAL | | |
| TIME | EARTH | STATION TIME | YMD | 7 | STATIONS | ANNUAL | | 3 STATIONS IN BAR HARBOR MAINE, ONE STATION IN LEWIS, DELAWARE: VIRGINIA BEACH, VIRGINIA; NEW TOPSAIL BEACH, |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | NORTH CAROLINA; AND ISLE OF PALMS, SOUTH CAROLINA |
| SPECIES DETERMINATION OF BENTHIC PLANTS | LAND | KEY | | 7 STATIONS | ANNUAL | | 15 DOMINANT SPECIES |
| POTASSIUM IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| PHOSPHORUS IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| CALCIUM IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| MANGANESE IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| IRON IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| ALUMINUM IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| BORON IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| PROTEIN IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| CARBOHYDRATES IN BIO MATERIAL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | STARCH AND SUGAR |
| APPARENT OXYGEN UTILIZATION | WATER | TITRATION | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | MEASUREMENT OF PLANT RESPIRATI ON AS OXYGEN CONSUMPTION AND CARBON DIOXIDE RELEASE |
| ORGANIC CARBON | INTERSTITIAL | GAS CHROMATOGRAPH Y | MICROGRAM ATOMS/ GRAM | 7 STATIONS | ANNUAL | | |
| TEMPERATURE | SEDIMENT | THERMISTOR | DEG C | 7 STATIONS | ANNUAL | | |
| SALINITY | INTERSTITIAL | INDEX OF REFRACTION | PPT | 7 STATIONS | ANNUAL | | |

DATA COLLECTED: JANUARY 1929 TO DECEMBER 1935

RECEIVED: MAY 07, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:
PLANKTON STUDIES WERE CONDUCTED IN THE DELAWARE BAY AREA FROM 1929 TO 1935 WITH A CONCENTRATION OF THE STUDY FROM EARLY 1930 TO MID 1933. PLANKTON POPULATIONS WERE SAMPLED APPROXIMATELY ONCE A MONTH AT ABOUT 40 STATIONS. ANALYSES INCLUDED IDENTIFICATIONS, COUNTS, LENGTHS AND VOLUMES CORRELATED WITH SEASON, TEMPERATURE, SALINITY AND CHLORAPHYLL DATA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
90 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
PLANKTON STUDIES. G.B. DEEVEY. OCT. 1960. VOL. 17, ART. 2, BULL. OF THE BINGHAM OCEANOGRAPHIC COLLECTION.

CONTACT:
DR. GEORGIANA B. DEEVEY 904 392 1721
FLORIDA STATE MUSEUM, UNIVERSITY OF FLORIDA
MUSEUM ROAD
GAINESVILLE FLORIDA USA 32611

GRID LOCATOR (LAT):
730784 730785 730794 730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | VARIOUS | MAP LOCATION | 40 STATIONS | | | GENERAL AREA, FIXED POINT |
| TIME | EARTH | STATION TIME | YM | 40 STATIONS | | | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | SPECIES NAME | 40 STATIONS | USUALLY 1 OBS/ MONTH STN | | |
| COUNT OF ZOOPLANKTON | WATER | MICROSCOPE | NUMBER PLANKTON/ 10 MINUTE TOW | 40 STATIONS | USUALLY 1 OBS/ MONTH STN | | |
| TEMPERATURE | WATER | UNKNOWN | DEG C TO HUNDREDTHS | 40 STATIONS | USUALLY 1 OBS/ MONTH STN | | |
| SALINITY | WATER | UNKNOWN | PPT | 40 STATIONS | USUALLY 1 OBS/ MONTH STN | | |
| TOTAL CHLOROPHYL | WATER | UNKNOWN | MG/L | 40 STATIONS | USUALLY 1 OBS/ | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | MONTH STN | | |
| L<br>LENGTH OF ZOOPLANKTON | WATER | DIRECT | MM | 40 STATIONS | USUALLY 1 OBS/ MONTH STN | | PRIMARILY CEPHALOTHORAX LENGTH OF SEVERAL SPECIES OF COPEPODS |
| VOLUME DETERMINATION OF ZOOPLANKTON | WATER | DISPLACEMENT | CC/10 MINUTE TOW | 40 STATIONS | USUALLY 1 OBS/ MONTH STN | | |

DATA COLLECTED: FEBRUARY 1971 TO APRIL 1972

RECEIVED: DECEMBER 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, MOBJACK BAY AND YORK RIVER

ABSTRACT:
A FIFTEEN MONTH STUDY OF PHYTOPLANKTON OF THE SURFACE WATER IN MOBJACK BAY, VIRGINIA WAS CONDUCTED. SAMPLES WERE COLLECTED FROM THE SURFACE MICROLAYER AT 0.5M AND 1.0M DEPTHS. PARAMETERS INCLUDED HYDROGRAPHIC DATA TAKEN FROM EACH OF THE FOUR STATIONS, COUNT AND IDENTIFICATION OF THECATE DINOFLAGELLATES, DIVERSITY, AND DIATOM COMPONENTS IN THE TOTAL PHYTOPLANKTON COMMUNITY. ONLY THECATE DINOFLAGELLATES COULD BE IDENTIFIED AND ENUMERATED BECAUSE FIXATION PROCEDURES EITHER RUPTURED, OR RENDERED THE NON-THECATE SPECIES UNRECOGINIZABLE. PHYTOPLANKTON WERE SAMPLED AT THREE DEPTHS AT EACH STATION.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 116 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
SURFACE PHYTOPLANKTON COMMUNITY STRUCTURE OF MOBJACK BAY AND YORK RIVER, VIRGINIA: PH.D. DISSERTATION, STOFAN, P.E.

CONTACT:
LIBRARIAN 804 642 2100
VIRGINIA INSTITUTE OF MARINE SCIENCE
SCHOOL OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 4 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 4 | STATIONS | MONTHLY | | |
| COUNT OF PHYTOPLANKTON | WATER | MICROSCOPE | | 4 | STATIONS | MONTHLY | | |
| SPECIES DETERMINATION OF PHYTOPLANKTON | WATER | KEY | | 4 | STATIONS | MONTHLY | | |
| DIVERSITY INDEX OF PHYTOPLANKTO | WATER | SHANNON-WEAVER | | 4 | STATIONS | MONTHLY | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| N | | | | | | | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | | 4 STATIONS | MONTHLY | | |
| TOTAL CARBON DIOXIDE | WATER | TITRATION | | 4 STATIONS | MONTHLY | | |
| TOTAL ALKALINITY | WATER | TITRATION | | 4 STATIONS | MONTHLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | | 4 STATIONS | MONTHLY | | |
| SALINITY | WATER | TITRATION | | 4 STATIONS | MONTHLY | | |
| VOLUME DETERMINATION OF PHYTOPLANKTON | WATER | SETTLING | | 4 STATIONS | MONTHLY | | |

DATA COLLECTED: JULY 1969 TO FEBRUARY 1971
RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, BROADKILL RIVER

ABSTRACT:
THIS STUDY WAS INITIATED TO DETERMINE THE DYNAMIC ROLE OF THE BROADKILL RIVER ESTUARINE SYSTEM IN THE TRANSPORT AND CYCLING OF NUTRIENTS IN THE COASTAL ENVIRONMENT OF WHICH IT IS A PART, WITH THE GOAL OF DEFINING THE MECHANISMS PRODUCING NUTRENT CYCLES AND THE RAMIFICATIONS OF THESE VARIATIONS. DATA ON SALINITY, TEMPERATURE, DISSOLVED OXYGEN, PH, SECCHI DEPTH, INORGANIC PHOSPHOROUS, ORGANIC PHOSPHOROUS, PARTICULATE PHOSPHOROUS, TOTAL PHOSPHOROUS, NITRITE, NITRATE, AMMONIA, CHLOROPHYLL WAS OBTAINED.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 127 PAGE THESIS

FUNDING:
U.S. DEPT OF INTERIOR

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. PHD. DISSERTATION (1971) BY WALLACE DEWITT III

CONTACT:
LIBRARIAN 302 645 6674
UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19558

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DEG | 11 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YM | 12 | OBS | MONTHLY | | |
| SALINITY | WATER | CONDUCTIVITY | PPT | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| PH | WATER | SPECIFIC ION ELECTRODE | NUMBERS | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | FT | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| NITRATE | WATER | COLORIMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| NITRITE | WATER | COLORIMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| AMMONIA | WATER | COLORIMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| ORGANIC PHOSPHORUS IN BIO MATERIAL | WATER | SPECTROPHOTOMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| PHOSPHORUS | SUSPENDED | SPECTROPHOTOMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MG-AT/L | 12 | OBS | MONTHLY | SURFACE AND BOTTOM | |

DATA COLLECTED: JANUARY 1972 TO NOVEMBER 1972

RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, DELAWARE, NORTH CAROLINA

ABSTRACT:
THIS STUDY INCLUDES DATA TAKEN AT 14 OCEANOGRAPHIC STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY SE FROM DELAWARE BAY, CAPE HENLOPEN TO THE SARGASSO SEA JUST BEYOND THE GULF STREAM AND THEN NW FROM THE SARGASSO SEA TO A POINT CLOSE TO THE MOUTH OF THE CHESAPEAKE BAY AND INTO BEAUFORT NORTH CAROLINA. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, NITRATE, NITRITE, PHOSPHATE, SILICATE, CHLOROPHYLL A, PHAEOPHYTIN, CS-137, RADIUM-228, RADIUM-226, THORIUM-228, LEAD-210, POLONIUN-210, PARTICULATE AND DISSOLVED MERCURY AS WELL AS REGULAR WIND, WAVE AND METEOROLOGICAL OBSERVATIONS.
(CRUISE BEGAN AT LEWES DELAWARE PROCEEDED OUT TO THE SARGASSO SEA TERMINATING AT BEAUFORT NORTH CAROLINA )

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
16 PAGES

FUNDING:
NATIONAL SCIENCE FOUNDATION NO. GA-28752

INVENTORY:

PUBLICATIONS:

CONTACT:
STUART KUPFERMAN 302 738 1212
UNIVERSITY OF DELAWARE
COLLEGE OF MARINE STUDIES
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73078530 73076543

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 14 | STATIONS | | SURFACE TO 980M | |
| TIME | EARTH | SAMPLING TIME | YMDHM | 14 | OBS | 1 OBS/STATION/ DEPTH | | |
| TEMPERATURE | WATER | VARIOUS | DEG C | 1500 | OBS | 2-3 OBS/ STATION/ DEPTH | SURFACE TO 980M | CONTINUOUS SURFACE TEMPERATURE TAKEN BY THERMISTOR AND |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | BUCKET AT EACH STATION 2 OR 3 DIFFERENT METHODS EMPLOYED, SURFACE TEMPERATURE BY BUCKET, STD, XBT DEPTH BY NANSEN/NISKIN REVERSING THERMOMETER, STD, BT |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 500 | OBS | 2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY | SURFACE TO 980M | SALINITY WAS CROSSED CHECK ON STATION STD AGAINST INDUCTIVE - SALINOMETER WHILE UNDERWAY ONLY INDUCTIVE SALINOMETER USED |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 84 | OBS | 1 OBS/DEPTH/ STATION | SURFACE TO 100 M | |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 84 | OBS | 1 OBS/DEPTH/ STATION | SURFACE TO 100 M | |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 84 | OBS | 1 OBS/DEPTH/ STATION | SURFACE TO 100 M | |
| SILICATE | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 84 | OBS | 1 OBS/DEPTH/ STATION | SURFACE TO 100 M | |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 84 | OBS | 1 OBS/DEPTH/ STATION | SURFACE TO 100 M | CONTINUOUS CHLOROPHYLL ALSO WAS TAKEN TO CORRELATE WITH STATION DATA |
| PHAEOPHYTIN A | WATER | SPECTROPHOTOMETRY | MICROGRAMS PER LITER | 84 | OBS | 1 OBS/DEPTH/ STATION | SURFACE TO 100 M | |
| MERCURY | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER BILLION | 84 | OBS | 2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY | SURFACE TO 100 M | |
| MERCURY | SUSPENDED | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER BILLION | 84 | OBS | 2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY | SURFACE TO 100 M | |
| MERCURY | DISSOLVED | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER BILLION | 84 | OBS | 2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY | SURFACE TO 100 M | |
| CESIUM-137 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 85 | OBS | 1 OBS/DEPTH/ STATION | 10-980 M | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| CESIUM-137 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 9 | OBS | 1 OBS/DEPTH/ STATION | 10-980 M | |
| RADIUM-228 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 9 | OBS | 1 OBS/DEPTH/ STATION | SURFACE | SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER |
| RADIUM-226 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 9 | OBS | 1 OBS/DEPTH/ STATION | SURFACE | SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER |
| LEAD-210 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 9 | OBS | 1 OBS/DEPTH/ STATION | SURFACE | SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER |
| THORIUM-228 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 9 | OBS | 1 OBS/DEPTH/ STATION | SURFACE | SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER |
| WIND SPEED | AIR | ANEMOMETER | NAUTICAL MILES PER HOUR | 250 | OBS | 1 OBS/HALF HOUR | | DATA TAKEN FROM SHIP MAST |
| WIND DIRECTION | AIR | DIRECTION VANE | COMPASS DEGREES | 250 | OBS | 1 OBS/HALF HOUR | | DATA TAKEN FROM SHIP MAST |
| WAVE AMPLITUDE | WATER | VISUAL | FEET | 250 | OBS | 1 OBS/HALF HOUR | SURFACE | DATA TAKEN FROM SHIP MAST |
| WAVE PERIOD | WATER | VISUAL | WAVE PER MINUTE | 250 | OBS | 1 OBS/HALF HOUR | SURFACE | MEASURED AS WAVES ACROSS BOW PER MINUTE |

DATA COLLECTED: NOVEMBER 1973 TO NOVEMBER 1973

RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY, BROADKILL RIVER, ROOSEVELT INLET

ABSTRACT:
THE BROADKILL RIVER AT THE ROOSEVELT INLET FROM DELAWARE BAY WAS MONITORED OVER A TIDAL CYCLE ON NOVEMBER 16, 1973 AS A PART OF A GRADUATE COURSE PROJECT BY THE UNIVERSITY OF DELAWARE'S COLLEGE OF MARINE STUDIES. DATA TAKEN EVERY 20 MINUTES INCLUDES SALINITY, TEMPERATURE, CURRENT SPEED, TOTAL PHOSPHATE, CHLOROPHYLL A, TOTAL AND PARTICULATE CARBOHYDRATE, TOTAL LOADING, AND DTRITRAL LOADING. BOTH TOTAL PARTICULATE LOADING AND THAT RETAINED BY A NUMBER 10 MESH NET WERE DETERMINED FOR EACH OF 12 OBS MADE.
(DATA TAKEN AS A CLASS PROJECT OVER ONE TIDAL CYCLE FROM A MOORED BOAT )

DATA AVAILABILITY:
LIMITED BY REPRODUCTION COSTS

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
10 PAGES

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

CONTACT:
CHARLES BRINE 302 738 1212
UNIVERSITY OF DELAWARE
COLLEGE OF MARINE STUDIES
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73078530

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 1 | STATIONS | | 1M | |
| TIME | EARTH | SAMPLING TIME | YMDHM | 150 | OBS | | 1M | |
| TEMPERATURE | WATER | MECHANICAL BT | DEG C | 14 | OBS | 1 OBS/20 MINUTE | 1M | |
| CURRENT SPEED | WATER | DRIFT DEVICE | METERS PER SECOND | 15 | OBS | 1 OBS/20 MINUTE | 1M | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 18 | OBS | 1 OBS/20 MINUTE | 1M | INDUCTIVE SALINOMETER WAS USED |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | MICROGRAM ATOMS PER LITER | 18 | OBS | 1 OBS/20 MINUTE | 1M | |
| CHITIN | WATER | SPECTROPHOTOMETRY | MICROGRAM PER LITER | 12 | OBS | 1 OBS/20 MINUTE | 1M | |
| CARBOHYDRATES | WATER | SPECTROPHOTOMETRY | MILLIGRAM GLUCOSE PER CUBIC METER | 12 | OBS | 1 OBS/20 MINUTE | 1M | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MILLIGRAM PER CUBIC METER | 12 | OBS | 1 OBS/20 MINUTE | 1M | |
| PARTICULATE MATTER | WATER | GRAVIMETRY | MILLIGRAM PER LITER | 24 | OBS | 1 OBS/20 MINUTE | 1M | |
| CARBOHYDRATES | SUSPENDED | SPECTROPHOTOMETRY | MILLIGRAM GLUCOSE PER CUBIC METER | 12 | OBS | 1 OBS/20 MINUTE | 1M | |

DATA COLLECTED: JUNE 1969 TO JULY 1970

RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE, REHOBOTH BAY, COASTAL

ABSTRACT:
THE BENTHIC MACROSCOPIC ALGAE OF REHOBOTH BAY, DELAWARE, WERE SAMPLED AT APPROXIMATELY MONTHLY INTERVALS OVER A 14-MONTH PERIOD IN 1969-1970 WITH A MODIFIED CARIBBEAN-TYPE DREDGE. THE OBJECTIVES OF THE SURVEY WERE TO DESCRIBE, QUALITATIVELY AND QUANTITATIVELY, THE BAY'S POORLY-KNOWN MACRO-ALGAE COMMUNITY AND TO CORRELATE PATTERNS OF DISTRIBUTION AND SEASONAL CHANGE WITH ENVIRONMENTAL PARAMETERS.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 98 PAGE THESIS

FUNDING:
UNIVERSITY OF DELAWARE RESERACH FOUNDATION

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1972, BY PATRICIA K. ORRIS

CONTACT:
LIBRARIAN 302 645 6674
UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DEG | 12 | STATIONS | MONTHLY | BOTTOM | |
| TIME | EARTH | STATION TIME | YM | 168 | OBS | MONTHLY | BOTTOM | |
| COUNT OF BENTHIC PLANTS | BOTTOM | VISUAL | LITERS | 168 | OBS | MONTHLY | BOTTOM | |
| TAXONOMIC LIST OF BENTHIC PLANTS | BOTTOM | KEY | SPECIES | 168 | OBS | MONTHLY | BOTTOM | |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 168 | OBS | MONTHLY | BOTTOM | |
| SALINITY | WATER | CONDUCTIVITY | PPT | 168 | OBS | MONTHLY | BOTTOM | SALINOMETER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | M | 168 | OBS | MONTHLY | BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PPM | 168 | OBS | MONTHLY | BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | UG-AT/L | 168 | OBS | MONTHLY | BOTTOM | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | UG-AT/L | 168 | OBS | MONTHLY | BOTTOM | |

004552



HYDROGEN SULFIDE PRODUCTION AND ITS EFFECT
DATA COLLECTED: OCTOBER 1965 TO AUGUST 1966

RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE, COASTAL, LEWES, CANARY CREEK MARSH

ABSTRACT:
THE SEASONAL VARIATION OF HYDROGEN SULFIDE PRODUCTION HAS BEEN MEASURED AND WAS FOUND AT A MAXIMUM DURING THE LATE SPRING MONTHS AND AT A MINIMUM DURING THE WINTER MONTHS. THE ANAEROBIC MICROORGANISMS RESPONSIBLE FOR SULFIDE PRODUCTION WERE DESULFOTONACULUM IN CHANGING ENVIRONMENTS AND DESULFOVIBRIO IN CONSTANT ENVIRONMENTS.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
DATA APPEARS IN UNPUBL THESIS BY R.J. REIMOLD

CONTACT:
INTERLIBRARY LOAN 302 738 2236
MORRIS LIBRARY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 6 | STATIONS | | SURFACE | |
| TIME | EARTH | STATION TIME | YMD | 27 | OBS | | SURFACE | |
| HYDROGEN SULFIDE | SEDIMENT | TITRATION | MOLES | 27 | OBS | WEEKLY | SURFACE | |
| SULFATE | WATER | GRAVIMETRY | MOLES | 6 | OBS | WEEKLY | SURFACE | |
| IRON | DISSOLVED | SPECTROPHOTOMETRY | MOLES | 6 | OBS | WEEKLY | SURFACE | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 6 | OBS | WEEKLY | SURFACE | |
| PH | WATER | PH METER | GRAMS PER LITER | 6 | OBS | WEEKLY | SURFACE | |
| TEMPERATURE | SEDIMENT | MERCURY THERMOMETER | DEG C | 6 | OBS | WEEKLY | SURFACE | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 6 | OBS | WEEKLY | SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| WATER CONTENT | SEDIMENT | GRAVIMETRY | PERCENT WATER | 6 | OBS | EVERY 4 MONTHS | SURFACE | |
| COUNT OF MICROBIOTA | SEDIMENT | VISUAL | NUMBER PER GRAM WET WEIGHT OF SEDIMENT | 6 | OBS | WEEKLY | SURFACE | |
| SPECIES DETERMINATION OF MICROBIOTA | SEDIMENT | KEY | | 6 | OBS | WEEKLY | SURFACE | TWO SPECIES DESULFOTONACULU M AND DESULFOVI BRIO WERE DETERMINED |
| ORGANIC CARBON | SEDIMENT | WET COMBUSTION/ INFRARED SPECTROMETRY | MG/G | 6 | OBS | WEEKLY | SURFACE | |

DATA COLLECTED: JULY 1964 TO NOVEMBER 1964
RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, COASTAL, CANARY CREEK

ABSTRACT:
THE INORGANIC PHOSPHATE CONCENTRATIONS OF CANARY CREEK MARSH WERE EVALUATED DURING VARYING SEASONAL AND TIDAL CONDITIONS. CANARY CREEK CONTRIBUTES INORGANIC PHOSPHATE TO THE DELAWARE BAY ON THE EBBING TIDE. MAXIMUM CONCENTRATIONS OCCURRED DURING JULY AND MINIMUM DURING JANUARY.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
DATA APPEARS IN UNPUBL THESIS BY R.J. REIMOLD

CONTACT:
INTERLIBRARY LOAN 302 738 2236
MORRIS LIBRARY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 10 | STATIONS | | SURFACE | |
| TIME | EARTH | STATION TIME | YMDH | 7 | OBS | EVERY TWO HOURS | SURFACE | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | UG-AT/L | 70 | STATIONS | EVERY TWO HOURS DURING A TIDAY CYCLE | SURFACE | SAMPLES FILTERED TO REMOVE DETRITUS |
| SALINITY | WATER | TITRATION | PARTS PER THOUSAND | 10 | STATIONS | | | SALINITY METHOD CHANGED DURING SAMPLING |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 10 | STATIONS | EVERY TWO HOURS DURING A TIDAY | SURFACE | SALINITY METHOD CHANGED DURING SAMPLING |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | CYCLE | | |

AN EVALUATION OF THE TOTAL PHOSPHORUS CONCENTRATION IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES

DATA COLLECTED: AUGUST 1968 TO AUGUST 1969

RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE, CANARY CREEK MARSH, MURDERKILL MARSH, COASTAL

ABSTRACT:
THE SEASONAL FLUCTUATION OF TOTAL PHOSPHORUS, PARTICULATE PHOSPHORUS, DISSOLVED ORGANIC PHOSPHORUS AND DISSOLVED INORGANIC PHOSPHORUS HAS BEEN MEASURED IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES OVER A THIRTEEN MONTH INTERVAL. COLLECTIONS WERE MADE MONTHLY AT EACH OF FOURTEEN STATIONS AND WATER SAMPLES TAKEN ON CONSECUTIVE HIGH AND LOW SLACK WATER PERIODS. WATER SAMPLES WERE ANALYZED FOR PHOSPHORUS, PH AND SALINITY ALONG WITH DIRECT DETERMINATION OF WATER AND AIR TEMPERATURE. THE FOURTEEN STATIONS IN THE TWO MARSHES WERE GROUPED INTO NINE AREAS WHICH INCLUDED: TIDAL CREEK, DITCHED MARSH, HIGH LEVEL IMPOUNDMENT, RIVER, LOW LEVEL IMPOUNDMENT, NEW CHAMPAGNE POOL, OLD CHAMPAGNE POOL, SMALL NATURAL MARSH GUT AND LARGE NATURAL MARSH GUT. THE PHOSPHORUS DISTRIBUTION COULD THEN BE EVALUATED IN ITS RELATION TO SEASON OF THE YEAR, ENVIRONMENTAL FLUX AND TOPOGRAPHY.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 114 PAGE THESIS

FUNDING:
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1972, BY GREGORY P. SHLOPAK

CONTACT:
LIBRARIAN 302 645 6674
UNIVERSITY OF DELAWARE MARINE STATION LIBRARY
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DEG | 14 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YM | 14 | OBS | MONTHLY | | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 13 | OBS | MONTHLY | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 234 | OBS | MONTHLY | | |

229

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SALINITY | WATER | CONDUCTIVITY | PPT | 234 | OBS | MONTHLY | | SALINOMETER |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 230 | OBS | MONTHLY | | |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | MONTHLY | | |
| PHOSPHORUS | SUSPENDED | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | MONTHLY | | |
| ORGANIC PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | MONTHLY | | |
| INORGANIC PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | MONTHLY | | |

DATA COLLECTED: MAY 1974 TO JUNE 1974

RECEIVED: AUGUST 15, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, NORTH CAROLINA, DELAWARE

ABSTRACT:
THIS CRUISE REPORT INCLUDES OCEANOGRAPHIC DATA TAKEN AT 40 STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY NE FROM BEAUFORT, NORTH CAROLINA ACROSS THE GULF STREAM, NW TO THE MOUTH OF THE CHESEPEAKE BAY, NE OUT TO THE GULF STREAM, AND NW INTO CAPE HENLOPEN, AT THE MOUTH OF DELAWARE BAY. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, DISSOLVED OXYGEN, DISSOLVED ORGANIC CARBON, PARTICULATE ORGANIC CARBON, NITRATE, NITRITE, TOTAL REACTIVE PHOSPHATE, TOTAL SILICATE, CHLOROPHYLL A, CARBON-14, PHAEOPHYTON PIGMENT, PARTICULATE CHITIN, CHITINOCLYTIC BACTERIA, AND PARTICULATE LIGHT SCATTERING INFORMATION. IN ADDITION FOR WATER MASS TRACING, SURFACE AND PROFILE CS-137 AND RADIUM-228 USED BULK WATER SAMPLE TECHNIQUES AND SPECIAL CAST SAMPLER TECHNIQUE(CS-137). REGULAR WIND, WAVE, AND METEOROLOGICAL OBSERVATION WERE ALSO TAKEN.
(NSF NORTH ATLANTIC RESIDENCE TIME BY CS-137 TRACER; CRUISE BEGAN AT BEAUFORT, NORTH CAROLINA PROCEEDED OUT ACROSS THE GULF STREAM TERMINATING BACK AT LEWES, DELAWARE )

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
50 PAGES

FUNDING:
NSF NO. GA-28752, UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

CONTACT:
STUART KUPEERMAN 302 738 1212
UNIVERSITY OF DELAWARE
COLLEGE OF MARINE STUDIES
NEWARK DELA USA 19711

GRID LOCATOR (LAT):
730765 730766 730767 730768 730769 730770 730771 730780 730781 730782 730783 730784 730785

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DMS | 40 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHM | 40 | OBS | 1 OBS/DEPTH/ STATION | | |
| TEMPERATURE | WATER | XBT | DEG C | 900 | OBS | 2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF- | SURFACE TO 980M | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 900 | OBS | 2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS | SURFACE TO 980M | INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD |
| LIGHT EXTINCTION | WATER | TRANSMISSOMETER LOWERING | RECIPROCAL METERS | 28 | OBS | 1 OBS/STATION | 0-80 METERS | EXTINCTION COEFFICIENTS WERE MEASURED AT EACH OF 28 STATIONS PLUS 2 VERTICAL DEPTH PROFILE WERE TAKEN AT SPECIES STATIONS |
| LIGHT SCATTERING COEFFICIENT | WATER | SMALL ANGLE FORWARD SCATTERING METER | RECIPROCAL METERS | 28 | OBS | 1 OBS/STATION | 0-80 METERS | VOLUME SCATTERING COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE SCATTERING METERS WERE TAKEN AT A 633 U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS |
| WIND SPEED | AIR | ANEMOMETER | MILES PER HOUR | 250 | OBS | 1 OBS/HALF-HOUR | | WIND SPEED MEASURED AT SHIPS MAST |
| WIND DIRECTION | AIR | DIRECTION VANE | COMPASS DEGREES | 250 | OBS | 1 OBS/HALF-HOUR | | |
| WAVE AMPLITUDE | WATER | VISUAL | FEET | 250 | OBS | 1 OBS/HALF-HOUR | SEA SURFACE | |
| WAVE DIRECTION | WATER | VISUAL | COMPASS DIRECTION | 250 | OBS | 1 OBS/HALF-HOUR | SEA SURFACE | |
| NITRATE | WATER | SPECTROPHOTOMETRY | MICROGRAM-ATOMS PER LITER | 201 | OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 100 METERS | NUTRIENT PARAMETERS TAKEN AT EACH STATION FOR |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | EACH PARTICULAR WATER SAMPLE BOTTLE DEPTH |
| NITRITE | WATER | SPECTROPHOTOMETRY | MICROGRAM-ATOMS PER LITER | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 100 METERS | |
| SILICATE | WATER | SPECTROPHOTOMETRY | MICROGRAM-ATOMS PER LITER | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 100 METERS | |
| REACTIVE PHOSPHATE | WATER | SPECTROPHOTOMETRY | MICROGRAM-ATOMS PER LITER | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 100 METERS | |
| TOTAL PHAEOPHYTI N | WATER | SPECTROPHOTOMETRY | MICROGRAM-ATOMS PER LITER | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 100 METERS | |
| CHITIN | SUSPENDED | SPECTROPHOTOMETRY | MICROGRAM PER LITER | 44 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 600 METERS | PARTICULATE CHITIN DATA TAKEN AT EACH OF 11 STATIONS AT THE VARIOUS BOTTLE DEPTHS PLUS SURFACE SAMPLE |
| COUNT OF MICROBIOTA | WATER | MICROSCOPE | COLONIES | 34 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 600 METERS | CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES |
| ORGANIC CARBON | DISSOLVED | AUTOANALYZER | MILLIGRAMS PER LITER | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 600 METERS | |
| ORGANIC CARBON | SUSPENDED | AUTOANALYZER | MILLIGRAMS PER LITER | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 600 METERS | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLILITERS PER LITER | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 600 METERS | |
| CARBON-14 | WATER | MASS SPECTROMETRY | MILLIGRAM PER METER CUBED PER DAY | 201 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 600 METERS | |
| CESIUM-137 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 41 OBS | 1 OBS/STATION/ DEPTH | 0-980 METERS | 17 CESIUM-137 SAMPLES AT ONE STATION WITH SPECIAL CAST TECHNIQUE WHILE OTHERS TAKEN FROM BULK WATER SAMPLE AT 0 AND 50 METERS AT 2 OBS/ STATION |
| RADIUM-226 | WATER | GAMMA RAY SPECTROMETRY | COUNTS PER MINUTE | 24 OBS | 2 OBS/STATION | 0 TO 50 METERS | RADIUM-226 DATA TAKEN 2 OBS/ STATION AT 0 AND 50 METERS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| TEMPERATURE | WATER | THERMISTOR | DEG C | 900 | OBS | 2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS | SURFACE TO 980M | |
| TEMPERATURE | WATER | MECHANICAL BT | DEG C | 900 | OBS | 2 OBS STATION/ DEPTH PLUS 1 OBS HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS | SURFACE TO 980M | |
| TEMPERATURE | WATER | RESISTANCE THERMOMETER | DEG C | 900 | OBS | 2 OBS STATION/ DEPTH PLUS 1 OBS HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS | SURFACE TO 980M | |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 900 | OBS | 2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS | SURFACE TO 980M | |
| SALINITY | WATER | STD | PARTS PER THOUSAND | 900 | OBS | 2 OBS STATION/ DEPTH PLUS 1 OBS, HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS | SURFACE TO 980M | INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD |
| LIGHT SCATTERING COEFFICIENT | WATER | RIGHT ANGLE FORWARD SCATTERING METER | RECIPROCAL METERS | 28 | OBS | 1 OBS/STATION | 0-80 METERS | VOLUME SCATTERING COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE SCATTERING METERS WERE TAKEN AT A 633 |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS |
| COUNT OF MICROBIOTA | WATER | VISUAL | COLONIES | 34 OBS | 1 OBS/STATION/ DEPTH | SURFACE TO 600 METERS | CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES |

004729

WATER RESOURCES DATA FOR PENNSYLVANIA. PART TWO. WATER QUALITY RECORDS
DATA COLLECTED: 1964 TO PRESENT


RECEIVED: AUGUST 18, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA

ABSTRACT:
THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBON DIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA, FE AND MN, COLIFORM AND STREPTOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:
ALSO IN ALL USGS OFFICIAL REPOSITORY LIBRARIES

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
300 PAGE INHOUSE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

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HARRISBURG PENNSYLVANIA USA 17108

GRID LOCATOR (LAT):
730794 730795 730796 730797 730798 730799 740704 740705 740706 740707 740708 740709 740714 740715 740716 740717 740718 740719
740724 740725 740726 740727 740728 740729

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | | 250 | STATIONS | | | MAP, VERBAL DESCRIPTION AND LATITUDE AND LONGITUDE GIVEN |
| TEMPERATURE | WATER | UNKNOWN | DEG C | 250 | STATIONS | | | |
| DISSOLVED | WATER | UNKNOWN | MILLIGRAMS PER | 250 | STATIONS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| OXYGEN GAS | | | LITER | | | | |
| ELECTRICAL CONDUCTIVITY | WATER | UNKNOWN | MICROMHOS | 250 STATIONS | | | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| CALCIUM | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| MAGNESIUM | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| SODIUM | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| POTASSIUM | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| FLUORIDE | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| NITRATE | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| DISSOLVED CARBON DIOXIDE GAS | WATER | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| BICARBONATE ION | WATER | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| TOTAL ALKALINITY | WATER | UNKNOWN | MILLIGRAMS CACO3 PER LITER | 200 STATIONS | | | |
| SULFATE | WATER | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| CHLORIDE | WATER | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| ORTHOPHOSPHATE | WATER | UNKNOWN | MILLIGRAMS PER LITER | 200 STATIONS | | | |
| HARDNESS | WATER | UNKNOWN | MILLIGRAMS CA AND MG PER LITER | 200 STATIONS | | | ALSO NONCARBONAT E HARDNESS |
| COLOR | WATER | PLATINUM-COBALT | | 200 STATIONS | | | |
| PH | WATER | UNKNOWN | PH UNITS | 200 STATIONS | | | |
| SILICATE | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 50 STATIONS | | | |
| IRON | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 50 STATIONS | | | |
| MANGANESE | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 50 STATIONS | | | |
| CARBONATE ION | WATER | UNKNOWN | MILLIGRAMS PER LITER | 50 STATIONS | | | |
| COUNT OF MICROBIOTA | WATER | UNKNOWN | NUMBER PER 100 ML | 50 STATIONS | | | IMMEDIATE COLIFORM, FECAL COLIFORM, AND STREPTOCOC CI |
| ORGANIC CARBON | WATER | UNKNOWN | MILLIGRAMS PER LITER | 50 STATIONS | | | |
| LIGHT ATTENUATIO N | WATER | UNKNOWN | JTU | 10 STATIONS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| SURFACTANTS | WATER | UNKNOWN | | 10 STATIONS | | | METHYLENE BLUE ACTIVE SUBSTANCE |
| ALUMINUM | DISSOLVED | UNKNOWN | MILLIGRAMS PER LITER | 10 STATIONS | | | |
| ARSENIC | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| CADMIUM | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| CHROMIUM | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| COPPER | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| LEAD | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| MERCURY | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| NICKEL | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| ZINC | DISSOLVED | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| AMMONIA | WATER | UNKNOWN | MILLIGRAMS PER LITER | 10 STATIONS | | | |
| CHLOROPHYLL A | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHML | 250 STATIONS | | | |
| ALDRIN | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| CHLORDANE | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| DDT | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| DDD | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| DDE | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| DIELDRIN | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| ENDRIN | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| HEPTACHLOR | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| LINDANE | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| 2,4,5-T | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| 2,4-D | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| TOXAPHENE | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |
| SILVEX | WATER | UNKNOWN | MICROGRAMS PER LITER | 10 STATIONS | | | |

DATA COLLECTED: 1967 TO PRESENT

RECEIVED: AUGUST 18, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA, MARYLAND, SUSQUEHANNA RIVER, CONOWINGO DAM TO HOLTWOOD DAM

ABSTRACT:
THIS STUDY WAS DESIGNED TO SERVE THE TWO PURPOSES OF ESTABLISHING BASELINE ECOLOGICAL DATA IN THE AREA OF AN ATOMIC POWER STATION AND OF MONITORING CHANGES THAT OCCURRED IN THE ECOLOGY OF THAT AREA BECAUSE OF THE OPERATION OF THE POWER STATION. BASIC WATER QUALIY PARAMETERS SUCH AS TEMPERATURE, PH, DISSOLVED OXYGEN AND CARBONATE-BICARBONATE CONTENT ARE INCLUDED WITH A COMPREHENSIVE BIOLOGIC SURVEY COMPRISED OF TAXONOMIC LISTS AND POPULATIONS OF PHYTOPLANKTON, ZOOPLANKTON, BENTHOS, AND FISH. STATISTICAL ANALYSES OF FISH POPULATIONS AND FEEDING HABITS ARE INCLUDED AS ARE THE RESULTS OF AN EXPERIMENT TO DETERMINE TEMPERATURE PREFERENCES OF FISH.

DATA AVAILABILITY:
THE COMPANY WILL COOPERATE WITH INDIVIDUALS DESIRING DATA BUT WILL NOT UNDERTAKE DUPLICATION OR PRINTING.

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
1 MAGNETIC TAPE

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
WALTER ROSENGARTEN 215 841 6380
PHILADELPHIA ELECTRIC COMPANY
2301 MARKET ST
PHILADELPHIA PENNSYLVANIA USA 19101

GRID LOCATOR (LAT):
73079630 73079631 73079640 73079641 73079642 73079651 73079652

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | | 17 | STATIONS | | | |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 17 | STATIONS | 2 PER MONTH | | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 17 | STATIONS | 2 PER MONTH | | |
| PH | WATER | SPECIFIC ION ELECTRODE | STD PH UNITS | 8 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| CARBONATE ION | WATER | TITRATION | PPM | 8 | STATIONS | 2 PER MONTH | SURFACE, 5 | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | FT, 10 FT, BOTTOM | |
| BICARBONATE ION | WATER | TITRATION | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| ELECTRICAL CONDUCTIVITY | WATER | LAB CONDUCTIVITY CELL/TEMPERATURE CORRECTED | MICROMHOS | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| PHOSPHATE | WATER | COLORIMETRY | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| NITRITE | WATER | TITRATION | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| NITRATE | WATER | SPECTROPHOTOMETRY | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| CHLORIDE | WATER | SPECIFIC ION ELECTRODE | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| SODIUM | WATER | SPECIFIC ION ELECTRODE | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| POTASSIUM | WATER | SPECIFIC ION ELECTRODE | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| CALCIUM | WATER | SPECIFIC ION ELECTRODE | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| MAGNESIUM | WATER | SPECIFIC ION ELECTRODE | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| TOTAL DISSOLVED SOLIDS | DISSOLVED | DRY WEIGHT | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| SILICON | WATER | SPECTROPHOTOMETRY | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| IRON | WATER | TITRATION | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | PPM | 13 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | PPM | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| TAXONOMIC LIST OF PHYTOPLANKTO | WATER | UNKNOWN | | 8 STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| N | | | | | | | BOTTOM | |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | MG PER CUBIC METER | 8 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | PHAEOPIGMENTS |
| CHLOROPHYLL B | WATER | SPECTROPHOTOMETRY | MG PER CUBIC METER | 8 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| CHLOROPHYLL C | WATER | SPECTROPHOTOMETRY | MG PER CUBIC METER | 8 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| CAROTENOIDS | WATER | SPECTROPHOTOMETRY | MG PER CUBIC METER | 8 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| BIOMASS OF ZOOPLANKTON | WATER | DRY WEIGHT | | 15 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| COUNT OF ZOOPLANKTON | WATER | UNKNOWN | NUMBER PER LITER | 15 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| TAXONOMIC LIST OF ZOOPLANKTON | WATER | UNKNOWN | | 15 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| TAXONOMIC LIST OF BENTHIC ANIMALS | BOTTOM | UNKNOWN | | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| BIOMASS OF BENTHIC ANIMALS | BOTTOM | UNKNOWN | | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| LENGTH OF PELAGIC FISH | WATER | FORK LENGTH | MM | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| WEIGHT OF PELAGIC FISH | WATER | WET WEIGHT | GRAMS | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| SEX DETERMINATIO N OF PELAGIC FISH | WATER | VISUAL | | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| COUNT OF PELAGIC FISH | WATER | UNKNOWN | | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| AGE DATING OF PELAGIC FISH | WATER | SCALES | | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| BIOLOGICAL CONDITION OF PELAGIC FISH | WATER | CALCULATED | | 11 | STATIONS | 2 PER MONTH | SURFACE, 5 FT, 10 FT, BOTTOM | |
| TIME | EARTH | STATION TIME | | 17 | STATIONS | | | |

242

004916

EFFECTS OF NUCLEAR STATION OPERATIONS ON ESTUARINE SYSTEMS
DATA COLLECTED: JUNE 1971 TO PRESENT


RECEIVED: FEBRUARY 06, 1976

PROJECTS:
ECOLOGICAL EFFECTS OF NUCLEAR STEAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND, CALVERT COUNTY

ABSTRACT:
STARTED IN JUNE OF 1971, THIS CONTINUING STUDY ON THE ECOLOGICAL EFFECTS OF NUCLEAR STEAM ELECTRIC STATION OPERATIONS ON THE ESTUARINE SYSTEMS ON THE WESTERN SHORE OF THE CHESAPEAKE BAY IN CALVERT COUNTY MARYLAND IS CONCERNED WITH PARAMETERS SUCH AS WEATHER DATA, SALINITY, DISSOLVED OXYGEN, AND THE GENERAL CONDITIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ANIMALS INHABITING THE ECOSYSTEM.

DATA AVAILABILITY:
NOT AVAILABLE FOR GENERAL DISTRIBUTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
4,300 PAGE NOTEBOOKS AND 10, 100 PAGE NOTEBOOKS

FUNDING:
CHESAPEAKE BIOLOGICAL LABORATORY, SOLOMONS, MD.

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH MIHURSKY 301 535 2121
UNIV OF MD, HALLOWING POINT FIELD STATION
RT 1
PRINCE FREDERICK MARYLAND USA 20678

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LATITUDE AND LONGITUDE | 18 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | YMDHM | 18 | STATIONS | MONTHLY | | |
| TEMPERATURE | WATER | THERMOCOUPLE | DEG C | 18 | STATIONS | | | |
| SALINITY | WATER | CONDUCTIVITY | | 18 | STATIONS | | | |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 18 | STATIONS | | | |
| TOTAL CHLOROPHYL L | WATER | SPECTROPHOTOMETRY | | 18 | STATIONS | | | |
| CARBON-14 | WATER | MASS SPECTROMETRY | | 18 | STATIONS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| NITRATE | WATER | SPECTROPHOTOMETRY | | 18 STATIONS | | | |
| CARBONATES | WATER | SPECTROPHOTOMETRY | | 18 STATIONS | | | |
| COUNT OF ZOOPLANKTON | WATER | VISUAL | | 18 STATIONS | | | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | | 18 STATIONS | | | |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER PER SQUARE METER | 18 STATIONS | | | |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | | 18 STATIONS | | | |
| BIOMASS OF BENTHIC ANIMALS | BOTTOM | DRY WEIGHT | | 18 STATIONS | | | |
| WEATHER | AIR | VISUAL | | 18 STATIONS | | | THE CAPTAINS LOG ABOARD THE R/V HAS A RECORD OF TIDE STAGE AND WIND DIRECTION |
| FECUNDITY OF PELAGIC FISH | WATER | VISUAL | | 18 STATIONS | | | |
| SECCHI DISC DEPTH | WATER | AVERAGE DEPTH | METERS | 18 STATIONS | | | |

WATER QUALITY VARIATIONS IN THE BROADKILL RIVER ESTUARY
DATA COLLECTED: JULY 1969 TO FEBRUARY 1971



RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, BROADKILL RIVER, COASTAL

ABSTRACT:
DURING THE PERIOD FROM JULY 16, 1969 AND FEBRUARY 27, 1971, HYDROGRAPHIC PARAMETERS AND CONCENTRATIONS OF VARIOUS PHOSPHORUS AND COMBINED INORGANIC NITROGEN FRACTIONS WERE SURVEYED IN THE BROADFILL RIVER ESTUARINE SYSTEM. CONCENTRATION VARIATIONS OF MOST OF THE PARAMETERS SURVEYED APPEARED TO FOLLOW BOTH SEASONAL AND TIDAL FLUCTUATIONS. AMMONIA, INORGANIC PHOSPHORUS, AND CHLOROPHYLL ATTAINED THEIR HIGHEST MEAN CONCENTRATIONS DURING THE SUMMER, WHILE THE MAXIMUM MEAN CONCENTRATIONS OF DISSOLVED OXYGEN AND NITRATE APPEARED DURING THE WINTER. THE HIGHEST MEAN CONCENTRATIONS OF NITRATE AND ORGANIC PHOSPHORUS WERE FOUND DURING THE AUTUMN.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
127 PAGES

FUNDING:
OFFICE OF WATER RESOURCES RESEARCH, UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:
DATA APPEARS IN UNPUBL M.S. THESIS UNDER PROFESSOR F.C. DAIBER

CONTACT:
INTERLIBRARY LOAN 302 738 2236
MORRIS LIBRARY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854182

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DMT | 11 | STATIONS | | SURFACE AND BOTTOM | |
| TIME | EARTH | STATION TIME | YM | 12 | OBS | | | |
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | FEET | 154 | OBS | | SURFACE | |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 126 | OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER | 126 | OBS | | SURFACE AND | 126 OBS AT EACH |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | THOUSAND | | | BOTTOM | BOTTOM AND SURFACE LOW AND HIGH WATER |
| PH | WATER | SPECIFIC ION ELECTRODE | GRAMS PER LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG O2/LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| REACTIVE PHOSPHATE | WATER | COLORIMETRY | UG-AT/LITER | 126 OBS | | SURFACE AND BOTTOM | SAMPLES FILTERED THROUGH FOURTY-FIVE HUNDREDTHS U FILTER. 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| NITRITE | WATER | COLORIMETRY | UG-AT/LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| NITRATE | WATER | COLORIMETRY | UG-AT/LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| AMMONIA | WATER | COLORIMETRY | UG-AT/LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW. AND HIGH WATER |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | UL/LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| CHLOROPHYLL B | WATER | SPECTROPHOTOMETRY | UL/LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |
| CHLOROPHYLL C | WATER | SPECTROPHOTOMETRY | UL/LITER | 126 OBS | | SURFACE AND BOTTOM | 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER |

004972 THE SEASONAL AND SPATIAL DISTRIBUTION OF NITRATE AND NITRITE IN THE SURFACE WATERS OF TWO DELAWARE SALT MARSHES



DATA COLLECTED: JULY 1966 TO DECEMBER 1967

RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, CANARY CREEK AND MURDERKILL RIVER, COASTAL

ABSTRACT:
THE DISTRIBUTION OF NITRATE AND NITRITE IN TWO AREAS OF DELAWARE SALT MARSH WAS STUDIED. SEASONAL VARIATIONS IN NITRATE WERE OBSERVED WITH MAXIMUM VALUES IN THE WINTER AND MINIMUM VALUES IN THE SUMMER. NITRITE APPEARED TO SHOW A SHORT PERIOD OF MAXIMUM CONCENTRATIONS IN THE FALL; WITH MINIMUM CONCENTRATIONS OCCURRING DURING THE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
141 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS - PITTMAN-ROBERTSON

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL M.S. THESIS BY W. DEWITT

CONTACT:
INTERLIBRARY LOAN 302 738 2236
MORRIS LIBRARY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854170 7307950235

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 16 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 136 | OBS | | | |
| NITRATE | WATER | SPECTROPHOTOMETRY | UG-AT/L | 1070 | OBS | | SURFACE | HIGH AND LOW WATER |
| NITRITE | WATER | SPECTROPHOTOMETRY | UG-AT/L | 1070 | OBS | | SURFACE | HIGH AND LOW WATER |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 792 | OBS | | SURFACE | HIGH AND LOW WATER |
| PH | WATER | PH METER | GRAMS PER LITER | 1070 | OBS | | SURFACE | HIGH AND LOW WATER |
| PH | WATER | SPECIFIC ION ELECTRODE | GRAMS PER LITER | 1070 | OBS | | SURFACE | PH METHOD CHANGED 196706 |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 1070 OBS | | SURFACE | HIGH AND LOW WATER |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 270 OBS | | SURFACE | HIGH AND LOW WATER |

004975 THE SEASONAL AND SPATIAL DISTRIBUTION OF NITRATE AND NITRITE IN THE SURFACE WATERS OF TWO DELAWARE MARSHES 

DATA COLLECTED: JULY 1966 TO DECEMBER 1967

RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE, CANARY CREEK MARSH, MURDERKILL MARSH

ABSTRACT:
THE DISTRIBUTION OF NITRATE AND NITRITE IN TWO AREAS OF DELAWARE SALT MARSH WAS STUDIED FROM JULY, 1966 TO DECEMBER, 1967. CANARY CREEK MARSH, LOCATED NEAR THE MOUTH OF DELAWARE BAY, WAS CHARACTERIZED BY HIGH SALINITY, LOW NITRATE WATER. THE MURDERKILL MARSH, IN CENTRAL DELAWARE, WAS CHARACTERIZED BY LOW SALINITY, HIGH NITRATE WATER. MAN-MADE CONTROL STRUCTURES IN THE MURDERKILL MARSH WERE FOUND TO INHIBIT FREE TIDAL EXCHANGE, AND THUS MODIFY THE DISTRIBUTION OF NITRATE AND NITRITE.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 141 PAGE MASTERS THESIS

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1968, BY DON AURAND

CONTACT:
LIBRARIAN 302 645 6674
MARINE STATION LIBRARY UNIVERSITY OF DELAWARE
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DEGREES | 16 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YM | 32 | OBS | | | |
| NITRATE | WATER | COLORIMETRY | UG-AT/L | 32 | OBS | | | |
| NITRITE | WATER | COLORIMETRY | UG-AT/L | 32 | OBS | | | |
| SALINITY | WATER | CONDUCTIVITY | PPT | 32 | OBS | | | |
| PH | WATER | PH METER | PH UNITS | 32 | OBS | | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 32 | OBS | | | |

ALGAL PRODUCTIVITY AND SOME ASPECTS OF THE ECOLOGICAL PHYSIOLOGY OF THE EDAPHIC COMMUNITIES OF CANARY CREEK TIDAL MARSH

DATA COLLECTED: JULY 1969 TO JUNE 1970

RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, CANARY CREEK, COASTAL

ABSTRACT:
GROSS ALGAL PRIMARY PRODUCTIVITY AND EDAPHIC COMMUNITY RESPIRATION ESTIMATES WERE MADE FOR FIVE AREAS OF CANARY CREEK TIDAL MARSH NEAR LEWES, DELAWARE. OXYGEN CHANGES IN WATER OVERLYING CORES OF THE MARSH INCUBATED IN THE LABORATORY WERE USED AS THE INDICATION OF METABOLIC ACTIVITY. ENVIRONMENTAL FACTORS OF LIGHT, TEMPERATURE, SALINITY, PH, NUTRIENT CONTENT OF SURFACE WATER AND THE NITROGEN AND PHOSPHOROUS CONTENT OF THE GRASS WERE MEASURED.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 120 PAGE THESIS

FUNDING:
STATE OF DELAWARE, DIVISION OF FISH AND WILDLIFE

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1971, BY JOHN L. GALLAGHER

CONTACT:
LIBRARIAN 302 645 6674
UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DEG | 5 | STATIONS | MONTHLY | | |
| TIME | EARTH | STATION TIME | YM | 15 | OBS | MONTHLY | | |
| LIGHT INTENSITY | AIR | UPLOOKING PHOTOMETER | LANGLEYS/DAY | 15 | OBS | MONTHLY | SOIL SURFACE | |
| TEMPERATURE | LAND | MERCURY THERMOMETER | DEG C | 15 | OBS | MONTHLY | 3 CM ABOVE SURFACE TO 2 CM BELOW | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 15 | OBS | MONTHLY | ONE AND TWO-TENTHS M ABOVE MARSH | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SALINITY | WATER | INDEX OF REFRACTION | PPT | 15 | OBS | MONTHLY | SURFACE SURFACE WATER | |
| PH | WATER | SPECIFIC ION ELECTRODE | UNITS OF PH | 15 | OBS | MONTHLY | SURFACE WATER | |
| PH | LAND | SPECIFIC ION ELECTRODE | UNITS OF PH | 15 | OBS | MONTHLY | SOIL SURFACE | |
| NITRITE | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | MONTHLY | SURFACE WATER | |
| NITRATE | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | MONTHLY | SURFACE WATER | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | MONTHLY | SURFACE WATER | |
| PHOSPHORUS | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | MONTHLY | SURFACE WATER | |
| CHLOROPHYLL A | WATER | FLUOROMETRY | UG-AT/L | 15 | OBS | MONTHLY | SURFACE WATER | |
| LENGTH OF BENTHIC PLANTS | LAND | DIRECT | METERS | 15 | OBS | MONTHLY | SOIL SURFACE | SPARTINA |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | ML/L | 15 | OBS | MONTHLY | SURFACE WATER | |

DATA COLLECTED: APRIL 1973 TO JANUARY 1974

RECEIVED: OCTOBER 03, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., SOUTHEASTERN PENNSYLVANIA AND NORTHERN DELAWARE

ABSTRACT:

STREAM WATER CHEMISTRY DATA OBTAINED FROM THE CHRISTINA RIVER AND ROCKY RUN STREAM FOR THE PERIOD FROM APRIL, 1973 TO JANUARY, 1974 AND JUNE, 1973 TO OCTOBER, 1973, RESPECTIVELY, ARE PRESENTED IN REPORT FORM. LOW FLOW SAMPLES AS WELL AS SAMPLES COLLECTED DURING THE RISING, PEAK AND FALLING STAGES OF THE STREAMS DURING RAINFALL EVENTS ARE ANALYZED TO ILLUSTRATE THE VARIATION OF CHEMICAL PARAMETERS FROM VALUES REFLECTING GROUND WATER CHEMISTRY TO VALUES REFLECTING THE EFFECT OF DIRECT PRECIPITATION AND RUNOFF. RAINFALL MEASUREMENTS AND CHEMICAL ANALYSES OF RUNOFF ARE PRESENTED.
(GRID LOCATOR - CHRISTINA RIVER AND ROCKY RUN STREAM RESPECTIVELY)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
100 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
METZ, R.W., 1975. THE EFFECTS OF VARIATION IN DISCHARGE ON THE STREAM CHEMISTRY OF THE CHRISTINA RIVER, DELAWARE. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 100 P.

CONTACT:

REBECCA W. METZ 302 738 2569
GEOLOGY DEPARTMENT, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73079544 73079553

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 8 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 113 | OBS | | | |
| SODIUM | WATER | COLORIMETRY | MG/L | 80 | OBS | | | |
| TOTAL ALKALINITY | WATER | TITRATION | MG/L | 101 | OBS | | | |
| CHLORIDE | WATER | TITRATION | MG/L | 116 | OBS | | | |
| SILICON | WATER | COLORIMETRY | MG/L | 62 | OBS | | | |
| MAGNESIUM | WATER | COLORIMETRY | MG/L | 84 | OBS | | | |
| HARDNESS | WATER | TITRATION | MG/L | 95 | OBS | | | |
| CALCIUM | WATER | COLORIMETRY | MG/L | 84 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| ORTHOPHOSPHATE | WATER | COLORIMETRY | MG/L | 76 | OBS | | | |
| SULFATE | WATER | COLORIMETRY | MG/L | 97 | OBS | | | |
| NITRATE | WATER | COLORIMETRY | MG/L | 109 | OBS | | | |
| ELECTRICAL CONDUCTIVITY | WATER | LAB CONDUCTIVITY CELL | MICROMHOS PER CM | 97 | OBS | | | |
| WATER TRANSPORT | WATER | CALCULATED | CUBIC FEET PER SECOND | 62 | OBS | | | |
| WATER TRANSPORT | WATER | FLOW METER | CUBIC FEET PER SECOND | 65 | OBS | | | |
| WATER LEVEL | WATER | VISUAL | INCHES | 97 | OBS | | | |
| PH | WATER | COLORIMETRY | PH UNITS | 80 | OBS | | | |
| PHOSPHATE | WATER | COLORIMETRY | MG/L | 1 | OBS | | | |

005110

HYDROGEN SULFIDE PRODUCTION AND ITS EFFECT
DATA COLLECTED: OCTOBER 1965 TO AUGUST 1966


RECEIVED: NOVEMBER 19, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, DELAWARE, LEWES, CANARY CREEK MARSH

ABSTRACT:
THE SEASONAL VARIATIONS OF HYDROGEN SULFIDE PRODUCTION HAS BEEN MEASURED AND WAS FOUND AT A MAXIMUM DURING THE LATE SPRING MONTHS AND AT A MINIMUM DURING THE WINTER MONTHS. THE ANAEROBIC MICROORGANISMS RESPONSIBLE FOR SULFIDE PRODUCTION WERE DESULFOTOMACULUM IN CHANGING ENVIRONMENTS AND DESULFOUIBRIO IN CONSTANT ENVIRONMENTS. (RESEARCH DONE AT U. OF DELAWARE )

DATA AVAILABILITY:
U. OF DELAWARE INTER-LIBRARY LOAN ALSO

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
INHOUSE REPORT

CONTACT:
JOHN C. BRYSON 302 678 4403
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA 19901

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 6 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 27 | OBS | | | |
| HYDROGEN SULFIDE | SEDIMENT | TITRATION | MOLES | 27 | OBS | WEEKLY | SURFACE | |
| SULFATE | WATER | GRAVIMETRY | MOLES | | | | | |
| IRON | DISSOLVED | SPECTROPHOTOMETRY | MOLES | 6 | OBS | WEEKLY | SURFACE | |
| SALINITY | WATER | CONDUCTIVITY | MOLES | 6 | OBS | WEEKLY | SURFACE | |
| | | | PARTS PER THOUSAND | 6 | OBS | WEEKLY | SURFACE | |
| PH | WATER | PH METER | GRAMS PER LITER | 6 | OBS | WEEKLY | SURFACE | |
| TEMPERATURE | SEDIMENT | MERCURY THERMOMETER | DEG C | 6 | OBS | WEEKLY | SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 6 | OBS | WEEKLY | SURFACE | |
| WATER CONTENT | SEDIMENT | GRAVIMETRY | PERCENT WATER | 6 | OBS | EVERY 4 MONTHS | SURFACE | |
| COUNT OF MICROBIOTA | SEDIMENT | VISUAL | NUMBER PER GRAM WET WEIGHT OF SEDIMENT | 6 | OBS | WEEKLY | SURFACE | |
| SPECIES DETERMINATION OF MICROBIOTA | SEDIMENT | KEY | | 6 | OBS | WEEKLY | SURFACE | 2 SPECIES DESULFOTOMACULUM AND DESULFOUIBRIO WERE DETERMINED |
| ORGANIC CARBON | SEDIMENT | WET COMBUSTION/ INFRARED SPECTROMETRY | MG PER GRAM | 6 | OBS | WEEKLY | SURFACE | |

DATA COLLECTED: JULY 1964 TO NOVEMBER 1964
RECEIVED: NOVEMBER 19, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S.. COASTAL, DELAWARE BAY, CANARY CREEK

ABSTRACT:
THE INORGANIC PHOSPHATE CONCENTRATIONS OF CANARY CREEK MARSH WERE EVALUATED DURING VARYING SEASONAL AND TIDAL CONDITIONS. CANARY CREEK CONTRIBUTES INORGANIC PHOSPHATE TO THE DELAWARE BAY ON THE EBBING TIDE. MAXIMUM CONCENTRATIONS OCCURRED DURING JULY AND MINIMUM CONCENTRATIONS OCCURRED DURING JANUARY.
(RESEARCH DONE BY UNIVERSITY OF DELAWARE )

DATA AVAILABILITY:
U. OF DELAWARE INTERLIBRARY LOAN ALSO

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
UNPUBLISHED M.S. THESIS JUNE 1964, REIMOLD, R.J.

CONTACT:
JOHN C. BRYSON 302 678 4403
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA 19901

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 70 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMDH | 70 | STATIONS | EVERY 2 HOURS | | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | UG AT PER L | 70 | STATIONS | EVERY 2 HOURS DURING A TIDAL CYCLE | SURFACE | SAMPLES FILTERED TO REMOVE DETRITUS |
| SALINITY | WATER | TITRATION | PPT | 70 | STATIONS | | SURFACE | SALINITY METHOD CHANGED DURING SAMPLING - A FINAL TOTAL OF 70 OBS WERE |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MADE |
| SALINITY | WATER | CONDUCTIVITY | PPT | 70 | STATIONS | EVERY 2 HOURS DURING A TIDAL CYCLE | SURFACE | SALINITY METHOD CHANGED DURING SAMPLING - A FINAL TOTAL OF 70 OBS WERE MADE |

[illegible] AN EVALUATION OF THE TOTAL PHOSPHORUS CONCENTRATION IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES

DATA COLLECTED: AUGUST 1968 TO AUGUST 1969



RECEIVED: NOVEMBER 19, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, DELAWARE, CANARY CREEK MARSH, MURDERKILL MARSH

ABSTRACT:
THE SEASONAL FLUCTUATION OF TOTAL PHOSPHORUS, PARTICULATE PHOSPHORUS, DISSOLVED ORGANIC PHOSPHORUS AND DISSOLVED INORGANIC PHOSPHORUS HAS BEEN MEASURED IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES OVER A THIRTEEN MONTH INTERVAL. COLLECTIONS WERE MADE MONTHLY AT EACH OF FOURTEEN STATIONS AND WATER SAMPLES TAKEN ON CONSECUTIVE HIGH AND LOW SLACK WATER PERIODS. WATER SAMPLES WERE ANALYZED FOR PHOSPHORUS, PH AND SALINITY ALONG WITH DIRECT DETERMINATION OF WATER AND AIR TEMPERATURES. THE FOURTEEN STATIONS ON THE TWO MARSHES WERE GROUPED INTO NINE AREAS WHICH INCLUDED: TIDAL CREEK, DITCHED MARSH, HIGH LEVEL IMPOUNDMENT, RIVER, LOW LEVEL IMPOUNDMENT, NEW CHAMPAGNE POOL, OLD CHAMPAGNE POOL, SMALL NATURAL MARSH GUT AND LARGE NATURAL MARSH GUT. THE PHOSPHORUS DISTRIBUTION COULD THEN BE EVALUATED IN ITS RELATION TO SEASON OF THE YEAR, ENVIRONMENTAL FLUX AND TOPOGRAPHY.

DATA AVAILABILITY:
U OF DELAWARE MARINE STATION LIBRARY LOAN ALSO.

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
[illegible]
[illegible] PAGES

FUNDING:
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

INVESTIGATORS:

PUBLICATIONS:
RESEARCH DONE BY [illegible] P. SALOMAN - DATA INCLUDED IN UNPUBLISHED M. S. THESIS, U. OF DELAWARE

CONTACT:
[illegible]
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA [illegible]

ORIG LOCATION CLAT?:
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DEG | 14 | STATIONS | | | |
| TIME | EARTH | SAMPLING TIME | HR | 14 | OBS | MONTHLY | | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 13 | OBS | | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 234 | OBS | | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SALINITY | WATER | CONDUCTIVITY | PPT | 234 | OBS | | | SALINOMETER |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 230 | OBS | | | |
| PHOSPHORUS | WATER | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | | | |
| PHOSPHORUS | [illegible] | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | | | |
| ORGANIC PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | | | |
| INORGANIC PHOSPHORUS | DISSOLVED | SPECTROPHOTOMETRY | UG-AT/L | 234 | OBS | | | |

[illegible] THE SEASONAL AND SPATIAL DISTRIBUTION OF NITRATE AND NITRITE IN THE SURFACE WATERS OF TWO DELAWARE SALT MARSHES

DATA COLLECTED: JULY 1966 TO DECEMBER 1967



RECEIVED: NOVEMBER 20, 1975

ORIGINATOR:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S. COASTAL, DELAWARE BAY, CANARY CREEK, MURDERKILL RIVER

ABSTRACT:
THE DISTRIBUTION OF NITRATE AND NITRITE IN TWO AREAS OF DELAWARE SALT MARSH WAS STUDIED. SEASONAL VARIATIONS IN NITRATE WERE OBSERVED WITH MAXIMUM VALUES IN THE WINTER AND MINIMUM VALUES IN THE SUMMER. NITRITE APPEARED TO SHOW A SHORT PERIOD OF MAXIMUM CONCENTRATIONS IN THE FALL WITH MINIMUM CONCENTRATIONS OCCURRING DURING THE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPES:
[illegible]

[illegible]
[illegible]

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS-PITTMAN-ROBERTSON

[illegible]

PUBLICATIONS:
DATA IS INCLUDED IN UNPUBLISHED M.S. THESIS, 1968 BY DON AURAND OF THE UNIVERSITY OF DELAWARE

CONTACT:
JOHN C. BRYSON [illegible]
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA [illegible]

DATA LOCATION [illegible]:
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DM | 16 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 136 | OBS | | | |
| NITRATE | WATER | SPECTROPHOTOMETRY | UG-AT/L | 1070 | OBS | | SURFACE | HIGH AND LOW WATER |
| NITRITE | WATER | SPECTROPHOTOMETRY | UG-AT/L | 1070 | OBS | | SURFACE | HIGH AND LOW WATER |
| SALINITY | WATER | CONDUCTIVITY | PARTS PER THOUSAND | 792 | OBS | | SURFACE | HIGH AND LOW WATER |
| PH | WATER | PH METER | GRAMS PER LITER | 1070 | OBS | | SURFACE | HIGH AND LOW WATER |
| PH | WATER | SPECIFIC ION ELECTRODE | GRAMS PER LITER | 1070 | OBS | | SURFACE | PH METHOD CHANGE 196706 |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 1070 OBS | | SURFACE | HIGH AND LOW WATER |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 270 OBS | | SURFACE | HIGH AND LOW WATER |
| NITRATE | WATER | COLORIMETRY | UG-AT/L | 1070 OBS | | SURFACE | HIGH AND LOW WATER |
| NITRITE | WATER | COLORIMETRY | UG-AT/L | 1070 OBS | | SURFACE | HIGH AND LOW WATER |

DATA COLLECTED: JULY 1969 TO JUNE 1970

RECEIVED: NOVEMBER 20, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, DELAWARE BAY, CANARY CREEK

ABSTRACT:
GROSS ALGAL PRIMARY PRODUCTIVITY AND EDAPHIC COMMUNITY RESPIRATION ESTIMATES WERE MADE FOR FIVE AREAS OF CANARY CREEK TIDAL MARSH NEAR LEWES, DELAWARE. OXYGEN CHANGES IN WATER OVERLYING CORES OF THE MARSH INCUBATED IN THE LABORATORY WERE USED AS THE INDICATION OF METABOLIC ACTIVITY. ENVIRONMENTAL FACTORS OF LIGHT, TEMPERATURE, SALINITY, PH, NUTRIENT CONTENT OF SURFACE WATER AND THE NITROGEN AND PHOSPHOROUS CONTENT OF THE GRASS WERE MEASURED.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
LOG SHEETS

FUNDING:
STATE OF DELAWARE, DIVISION OF FISH AND WILDLIFE

INVENTORY:

PUBLICATIONS:
DATA ALSO INCLUDED IN UNPUBLISHED M.S. THESIS, 1971, BY JOHN L. GALLAGHER OF THE UNIVERSITY OF DELAWARE

CONTACT:
CHARLES [illegible] 302 678 4431
DELAWARE DIVISION OF FISH AND WILDLIFE
DOVER DELAWARE USA 19901

GRID LOCATION (LAT):
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DEGREES | 5 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YR | 15 | OBS | MONTHLY | | |
| LIGHT INTENSITY | AIR | UNKNOWN | LANGLEYS/DAY | 15 | OBS | | SOIL SURFACE | LIGHT METER |
| TEMPERATURE | LAND | MERCURY THERMOMETER | DEG C | 15 | OBS | | 3 CM ABOVE SURFACE TO 2 CM BELOW | |
| TEMPERATURE | AIR | MERCURY THERMOMETER | DEG C | 15 | OBS | | ONE AND TWO-TENTHS M ABOVE MARSH SURFACE | |
| SALINITY | WATER | INDEX OF | PPT | 15 | OBS | | SURFACE WATER | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | REFRACTION | | | | | | |
| PH | WATER | SPECIFIC ION ELECTRODE | PH UNITS | 15 | OBS | | SURFACE WATER | |
| PH | LAND | SPECIFIC ION ELECTRODE | PH UNITS | 15 | OBS | | SOIL SURFACE | |
| NITRITE | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | | SURFACE WATER | |
| NITRATE | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | | SURFACE WATER | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | | SURFACE WATER | |
| PHOSPHORUS | WATER | COLORIMETRY | UG-AT/L | 15 | OBS | | SURFACE WATER | |
| CHLOROPHYLL A | WATER | SPECTROPHOTOMETRY | UG-AT/L | 15 | OBS | | SURFACE WATER | |
| LENGTH OF BENTHIC PLANTS | LAND | DIRECT | M | 15 | OBS | | SOIL SURFACE | PLANT MEASURED WAS SPARTINA (A MARSH GRASS) |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | ML/L | 15 | OBS | | SURFACE WATER | |
| SPECIES IDENTIFICATION OF BENTHIC ANIMALS | BOTTOM | KEY | | 15 | OBS | | | PLANT MEASURED WAS SPARTINA (A MARSH GRASS) |

UNITED STATES GEOLOGICAL SURVEY-PHILADELPHIA WATER DEPARTMENT MONTHLY
COOPERATIVE STUDY
DATA COLLECTED: 1949 TO PRESENT



RECEIVED: MARCH 10, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, DELAWARE BAY, MARCUS HOOK PENNSYLVANIA TO UBRLINGTON, NEW JERSEY

ABSTRACT:
SINCE 1949 THE PHILADELPHIA WATER DEPARTMENT AND THE USGS HAVE CONDUCTED A MONTHLY SURVEY OF THE WATER QUALITY OF THE DELAWARE ESTUARY. SAMPLING IS CROSS-SECTIONAL AT EIGHT POINTS BETWEEN MARCUS HOOK, PA. AND BURLINGTON, NJ. AT EACH POINT, SAMPLES ARE TAKEN THREE FEET BELOW THE SURFACE AND THREE FEET ABOVE THE BOTTOM AT EACH SHORE, MID CHANNEL, AND MIDWAY BETWEEN EACH SHORE AND MID CHANNEL. THE DATA DEMONSTRATE HORIZONTAL STRATIFICATION OF THE ESTUARY AS WELL AS VERTICAL HOMOGENEITY. PARAMETERS MEASURED INCLUDE: TIME, TEMPERATURE, PH, SPECIFIC CONDUCTIVITY, DISSOLVED OXYGEN, BOD, CHLORIDE, AND SUSPENDED SEDIMENT (DATA WILL BE ASSEMBLED IN REPORT AND ADDED TO STORET IN EARLY 1976)

DATA AVAILABILITY:
ALSO FROM U.S.G.S. REGIONAL OFFICE U.S. CUSTOMS HOUSE, PHILADELPHIA, PA 19106

PLATFORM TYPES:
SHIP

ARCHIVAL MEDIA:
DATA SHEETS
7-PAGE SUMMARY, SEVERAL HUNDRED DATA SHEETS NOT YET ASSEMBLED IN REPORT

FUNDING:
PHILADELPHIA WATER DEPT; US GEOLOGICAL SURVEY

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215 686 1776
PHILADELPHIA WATER DEPT
1270 MSB 15TH AND JFK BLVD
PHILADELPHIA PENNSYLVANIA USA 19107

GRID LOCATION (LAT):
73079542 73079550 73079551 73079552 74070500 74070405

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MILES TO TENTHS | 2400 | STATIONS | 8 STATIONS/ MONTH | | |
| TIME | EARTH | SAMPLING TIME | YMDHM | 12000 | OBS | 40 POINTS/ MONTH | | FIVE POINTS/ STATION, EIGHT STATIONS VISITED MONTHLY |
| TEMPERATURE | WATER | THERMISTOR | DEGREES TO | 24000 | OBS | 40 POINTS/ | 3 FT BELOW | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | TENTHS | | | MONTH | SURFACE AND 3 FT ABOVE BOTTOM | |
| PH | WATER | PH METER | PH UNITS | 24000 | OBS | 40 POINTS/ MONTH | 3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM | |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL | MICROMHOS | 24000 | OBS | 40 POINTS/ MONTH | 3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM | |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MG/L | 24000 | OBS | 40 POINTS/ MONTH | 3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | MG/L | 24000 | OBS | 40 POINTS/ MONTH | 3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM | INCUBATION |
| CHLORIDE | WATER | TITRATION | MG/L | 24000 | OBS | 40 POINTS/ MONTH | 3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM | |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MG/L | 24000 | OBS | 40 POINTS/ MONTH | 3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM | |

DATA COLLECTED: JULY 1962 TO PRESENT

RECEIVED: MARCH 10, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON, NEW JERSEY

ABSTRACT:
SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA, TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTHO-AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, METHYLENE BLUE ACTIVE SUBSTANCES, CYANIDE, TOTAL COLIFORMS, FECAL COLIFORMS AND STREPTOCOCCI, ZINC, CALCIUM, MAGNESIUM, IRON, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM.
(DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILADPT )

DATA AVAILABILITY:
WITH PERMISSION OF WATER COMMISSIONER, OR ON IBM CARDS AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS: DATA SHEETS
500 PAGE REPORT OR 9 PAGE SUMMARY

FUNDING:
PHILADELPHIA WATER DEPT

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215 686 1776
PHILADELPHIA WATER DEPT., RESEARCH AND DEVELOPMENT DIV.
1270 MSB 15TH AND JFK BLVD
PHILADELPHIA PENNSYLVANIA USA 19107

GRID LOCATION (LAT):
[illegible] [illegible] 7307950078 7307950084 7307950085 7307950086 7307950093 7307951005 7307950120 7307950200 7407040478
[illegible] [illegible] 7407040523 7407040544 7407040546 7407040551 7407001415 7407001436 7407050002 7407050003 7407050011

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | DMS | 23 | STATIONS | 1 STATION/WK | | ACCURACY WITHIN 200 FT |
| TIME | EARTH | STATION TIME | | 23 | STATIONS | 1 STATION/WK | | |
| TIDAL PHASE | WATER | TABLES | | 23 | STATIONS | 1 STATION/WK | | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 23 | STATIONS | 1 STATION/WK | SLIGHTLY BELOW | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | SURFACE | |
| PH | WATER | PH METER | STANDARD PH UNITS | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| TOTAL ALKALINITY | WATER | TITRATION | MG/L AS CACO3 | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| LIGHT SCATTERING COEFFICIENT | WATER | MULTISPECTRAL SCANNER | JACKSON TURBIDITY UNITS | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| ELECTRICAL CONDUCTIVITY | WATER | IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED | MICROMHOS PER CM AT 25 DEG C | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| SURFACTANTS | WATER | COLORIMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| CHEMICAL OXYGEN DEMAND | WATER | TITRATION | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | SPECIFIC ION ELECTRODE | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| COUNT OF MICROBIOTA | WATER | FILTRATION | COLONIES PER 100 MG | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | REPORTED AS TOTAL COLIFORMS FECAL COLIFOMS, AND FECAL STREPTOCOCCI |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| MERCURY | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| ALUMINUM | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| CHLORIDE | WATER | AUTOANALYZER | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| ORTHOPHOSPHATE | WATER | AUTOANALYZER | MG/L AS PO4 | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| UNREACTIVE PHOSPHATE | WATER | AUTOANALYZER | MG/L AS PO4 | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| AMMONIA | WATER | SPECIFIC ION ELECTRODE | MG/L AS N | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| NITRATE | WATER | AUTOANALYZER | MG/L AS N | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| NITRITE | WATER | AUTOANALYZER | MG/L AS N | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| PHENOLS | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| ARSENIC | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| BERYLLIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| CALCIUM | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| CADMIUM | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| COPPER | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| CHROMIUM | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| LEAD | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| MAGNESIUM | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| MANGANESE | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| NICKEL | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| ZINC | WATER | SPECTROPHOTOMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |
| CYANIDE | WATER | COLORIMETRY | MG/L | 23 STATIONS | 1 STATION/WK | SLIGHTLY BELOW SURFACE | |

[illegible]    BECKETT NEWTOWN, GLOUCESTER COUNTY, NEW JERSEY. REPORT FOR LANDTECT CORPORTATION    PAGE 01
DATA COLLECTED: 1957 TO 1972    RECEIVED: MARCH 27, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NEW JERSEY, GLOUCESTER COUNTY, COASTAL

ABSTRACT:
THIS REPORT IS AN ENVIRONMENTAL IMPACT STATEMENT DISCUSSING THE SITE FOR A POTENTIAL HOUSING DEVELOPMENT. IT INCLUDES A COMPLETE REPORT ON SOIL CHARACTERISTICS AND SUITABILITY FOR VARIOUS PURPOSES, CLIMATIC, WATER QUALITY, HYDROLOGIC, GEOLOGIC, FAUNAL AND FLORAL DATA. IT HAS IN ADDITION AN EXTENSIVE BIBLIOGRAPHY. WATER ANALYSES WERE DONE BY AN INDEPENTENT LAB AND METHODS WERE NOT REPORTED.

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
WITHIN 400 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. JAMES A. SCHMID 215 647 3110
JACK MCCORMICK AND ASSOCIATES
860 WATERLOO RD.
DEVON PENNSYLVANIA USA 19333

GRID LOCATION (LAT):
[illegible]

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SOIL TYPE | LAND | VISUAL | | 69 | OBS | CONTINUOUS | | MAP INCLUDED |
| SLOPE | LAND | DIRECT | PER CENT | 69 | OBS | ONE PER SOIL UNIT | NEAR SURFACE | |
| DEPTH | LAND | DIRECT | CM | 69 | OBS | ONE PER SOIL UNIT | NEAR SURFACE | |
| SIZE ANALYSES | LAND | VISUAL | | 69 | OBS | ONE PER SOIL UNIT | NEAR SURFACE | |
| ORGANIC CARBON | LAND | UNKNOWN | PER CENT | 69 | OBS | ONE PER SOIL UNIT | NEAR SURFACE | |
| WATER CONTENT | LAND | GRAVIMETRY | INCHES WATER/ INCH SOIL | 69 | OBS | ONE PER SOIL UNIT | NEAR SURFACE | |
| COMPRESSIBILITY | LAND | UNKNOWN | | 69 | OBS | ONE PER SOIL | NEAR SURFACE | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PERMEABILITY | LAND | VISUAL | INCHES WATER/ HOUR | 69 | OBS | UNIT ONE PER SOIL UNIT | NEAR SURFACE | |
| DEPOSITION | LAND | VISUAL | | 69 | OBS | ONE PER SOIL UNIT | NEAR SURFACE | |
| SPECIES DETERMINATION OF BIRDS | AIR | KEY | | 18 | OBS | | | 3 OBS IN EACH OF 6 ENVIRONMENTS |
| SPECIES DETERMINATION OF MAMMALS | LAND | KEY | | 1 | OBS | | | 42 SPECIES, INCLUDES BATS |
| SPECIES DETERMINATION OF AMPHIBIANS | WATER | KEY | | 1 | OBS | | | |
| SPECIES DETERMINATION OF REPTILES | LAND | KEY | | 1 | OBS | | | |
| SPECIES DETERMINATION OF REPTILES | WATER | KEY | | 1 | OBS | | | |
| SPECIES DETERMINATION OF LAND PLANTS | LAND | KEY | | 1 | OBS | | | |
| CHLORINE | WATER | UNKNOWN | PPM | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| PH | INTERSTITIAL | UNKNOWN | PH UNITS | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| IRON | INTERSTITIAL | UNKNOWN | PPM | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| FLUORINE | SEDIMENT | UNKNOWN | PPM | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| NITRATE | SEDIMENT | UNKNOWN | PPM | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| CALCIUM | SEDIMENT | UNKNOWN | PPM | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| HARDNESS | WATER | UNKNOWN | PPM | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| TOTAL SOLIDS | SEDIMENT | UNKNOWN | PPM | 504 | STATIONS | 18 STA TWICE/ YEAR | | GROUNDWATER |
| PH | WATER | UNKNOWN | PPM | 90 | STATIONS | ONCE ONLY | | |
| HARDNESS | WATER | UNKNOWN | PPM | 90 | STATIONS | ONCE ONLY | | |
| CHLORINE | WATER | UNKNOWN | PPM | 90 | STATIONS | ONCE ONLY | | |
| DISSOLVED OXYGEN GAS | WATER | UNKNOWN | PPM | 90 | STATIONS | ONCE ONLY | | |
| TOTAL ALKALINITY | WATER | TITRATION | PPM | 90 | STATIONS | ONCE ONLY | | |
| COUNT OF MICROBIOTA | WATER | UNKNOWN | APPROXIMATE NUMBER PER VOLUME | 90 | STATIONS | ONCE ONLY | | |

PRELIMINARY ECOLOGICAL EVALUATION AND RECREATIONAL CENSUS LITTLE TINICUM ISLAND AND VICINITY

DATA COLLECTED: JANUARY 1970 TO JULY 1971

RECEIVED: JUNE 21, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S. COASTAL, DELAWARE RIVER, PENNSYLVANIA, DELAWARE COUNTY, LITTLE TINICUM ISLAND

ABSTRACT:
THIS STUDY WAS A BASIC ECOLOGICAL INVENTORY OF LITTLE TINICUM ISLAND AND VICINITY INCLUDING WATER CHEMISTRY AND BIOLOGICAL SURVEY INFORMATION FROM THE ISLAND AND DELAWARE RIVER NEARBY. THE DATA, TAKEN IN 1970 AND 1971, INCLUDES WATER TEMPERATURE, PH, BOD, CHLORIDE, ORTHOPHOSPHATE, ORGANIC PHOSPHATE.
(THIS REPORT WAS PREPARED FOR THE PHILADELPHIA DISTRICT OF THE US ARMYCORPS OF ENGINEERS )

DATA AVAILABILITY:
AVAILABLE AT THE OFFICES OF JACK MCCORMICK AND ASSOCIATES IN BERWYN, PENNSYLVANIA

PLATFORM TYPES:
FIXED STATION; AIRCRAFT

ARCHIVE MEDIA:
REPORTS; CHARTS
1 MAP AND 78 PAGES

FUNDING:
US DEPPARTMENT OF DEFENSE, US ARMY NO. DACW61-71-C-0287

INVENTORY:

PUBLICATIONS:

CONTACT:
JACK MC CORMICK 215 647 9000
JACK MC CORMICK AND ASSOCIATES
511 OLD LANCASTER ROAD
BERWYN PENNSYLVANIA USA 19312

GRID LOCATOR (LAT):
7307952500

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATIONS | 1 STATIONS | 1/SEASON | | WATER CHEMISTRY STATION LOCATED IN DELAWARE RIVER NEAR LITTLE TIMCUM ISLAND |
| TIME | EARTH | STATION TIME | YMD | 4 OBS | 1/SEASON | | 4 SEASONS WORTH DATA |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 4 OBS | 1/SEASON | TOP OF WATER COLUMN | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PH | WATER | PH METER | PH UNITS | 4 | OBS | 1/SEASON | TOP OF WATER COLUMN | |
| CHLORIDE | WATER | TITRATION | PPM | 4 | OBS | 1/SEASON | TOP OF WATER COLUMN | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PPM | 4 | OBS | 1/SEASON | TOP OF WATER COLUMN | |
| NITRATE | WATER | SPECTROPHOTOMETRY | PPM | 4 | OBS | 1/SEASON | TOP OF WATER COLUMN | |
| NITRITE | WATER | SPECTROPHOTOMETRY | PPM | 4 | OBS | 1/SEASON | TOP OF WATER COLUMN | |
| ORGANIC PHOSPHORUS | WATER | SPECTROPHOTOMETRY | PPM | 4 | OBS | 1/SEASON | TOP OF WATER COLUMN | |
| ORTHOPHOSPHATE | WATER | SPECTROPHOTOMETRY | PPM | 4 | OBS | 1/SEASON | TOP OF WATER COLUMN | |
| COUNT OF MICROBIOTA | WATER | VISUAL | COLONIES/100 ML | 8 | OBS | 2/STATION/ SEASON | TOP OF WATER COLUMN | FECAL AND TOTAL COLIFORM COUNTED FOR EACH SAMPLING |
| LAND USE | LAND | AERIAL PHOTOGRAPH Y | ACRES/VEGETATION TYPE | 1 | STATIONS | | LAND SURFACE | |
| TAXONOMIC LIST OF LAND PLANTS | LAND | KEY | QUALITATIVE TERMS | 1 | STATIONS | | LAND SURFACE | |
| TAXONOMIC LIST OF BIRDS | AIR | KEY | QUALITATIVE TERMS | 1 | STATIONS | | LAND TO AIR | SIGHTINGS OF BIRDS INDICATED BY LISTING OF SPECIES OBSERVED |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER/SPECIES | 1 | OBS | | WATER COLUMN | FISH SAMPLING AT SINGLE DELAWARE RIVER STATION NEAR LITTLE TINICUM ISLAND |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER/SPECIES | 1 | OBS | | WATER COLUMN | FISH SAMPLING AT SINGLE DELAWARE RIVER STATION NEAR LITTLE TINICUM ISLAND |

007239 SOUTH RIVER AND SEVERN RIVER SEWAGE OUTFALL DETECTION AND EUTROPHICATION STUDIES-MARYLAND 

DATA COLLECTED: FEBRUARY 1973 TO FEBRUARY 1973

RECEIVED: OCTOBER 19, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, SOUTH RIVER AND SEVERN RIVER

ABSTRACT:
MISSION W189, FLIGHT 01, WAS ACCOMPLISHED ON FEBRUARY 22, 1973, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH THE NASA LANGLEY RESEARCH CENTER FOR THE ENVIRONMENTAL PROTECTION AGENCY. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN LARGE SCALE INFRARED PHOTOGRAPHIC IMAGERY OF THE CHESAPEAKE BAY AT THE JUNCTION OF THE BAY AND THE MOUTH OF THE SOUTH AND SEVERN RIVERS FOR SEWAGE OUTFALL DETECTION AND EUTROPHICATION STUDIES. (MISSION W189, FLIGHT 01 )

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
230, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078634 730786 730796

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LONGITUDE AND LATITUDE | 7 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 7 | OBS | 1 FLIGHT PER LINE | | |
| PHOTOGRAPH | EARTH | IR CAMERA FROM AIRCRAFT | PRINTS | 7 | OBS | 1 FLIGHT PER LINE | 700, 800, 1000, 3960, 10,000 FEET | 152 AND FOUR-TENTHS MM FOCAL LENGTH |

DATA COLLECTED: MAY 1974 TO NOVEMBER 1974

RECEIVED: JUNE 21, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, NEW JERSEY, GLOUCESTER COUNTY, WOODBURY CREEK, HESSIAN RUN

ABSTRACT:
THIS STUDY DONE TO EVALUATE WOODBURY CREEK MARSHES AS THEY EXIST TO DETERMINE POTENTIAL IMPACTS DUE TO A PROPOSED ROUT2 I-295 INTERSECTION. INCLUDED IN THIS EXISTING CONDITIONS STUDY WERE DATA ON BASIC VEGETATION, ANIMAL COMMUNITIES, PRODUCTIVITY, AND WATER QUALITY CHEMISTRY.
(THIS REPORT WAS PREPARED FOR NEW JERSEY TRANSPORTATION DEPARTMENT )

DATA AVAILABILITY:
AVAILABLE THROUGH RUTGERS MARINE SCIENCE CENTER NEW BRUNSWICK, NEW JERSEY AS TECHNICAL REPORT 75-2

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
105 PAGES

FUNDING:
STATE OF NEW JERSEY, DEPARTMENT OF TRANSPORTATION

INVENTORY:

PUBLICATIONS:

CONTACT:
RALPH GOOD 609 757 6146
RUTGERS UNIVERSITY
BIOLOGY DEPARTMENT
CAMDEN NEW JERSEY USA 08102

GRID LOCATOR (LAT):
7307955100

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP POSITIONS | 8 | STATIONS | | LAND SURFACE TO WATER COLUMN | |
| TIME | EARTH | STATION TIME | YMD | 8 | STATIONS | MONTHLY OR BIMONTHLY | LAND SURFACE TO WATER COLUMN | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 48 | OBS | MONTHLY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG/L | 48 | OBS | MONTHLY | | |
| TOTAL SOLIDS | SUSPENDED | DRY WEIGHT | MG/L | 48 | OBS | MONTHLY | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| TOTAL DISSOLVED SOLIDS | DISSOLVED | DRY WEIGHT | MG/L | 48 OBS | MONTHLY | | |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MG/L | 48 OBS | MONTHLY | | |
| KJELDAHL NITROGEN | WATER | SPECTROPHOTOMETRY | MG/L | 48 OBS | MONTHLY | | |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER/SPECIES | 48 OBS | MONTHLY | | |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | NUMBER/SPECIES | 48 OBS | MONTHLY | | |
| COUNT OF MICROBIOTA | WATER | VISUAL | COLONIES/100 ML | 48 OBS | MONTHLY | | |
| COUNT OF BIRDS | AIR | VISUAL | | 24 OBS | BIMONTHLY | | |
| SPECIES DETERMINATION OF BIRDS | AIR | KEY | | 24 OBS | BIMONTHLY | | |
| COUNT OF PELAGIC FISH | WATER | VISUAL | | 24 OBS | BIMONTHLY | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | | 24 OBS | BIMONTHLY | | |
| COUNT OF MAMMALS | LAND | VISUAL | | 24 OBS | BIMONTHLY | | |
| COUNT OF REPTILES | LAND | VISUAL | | 24 OBS | BIMONTHLY | | |
| COUNT OF AMPHIBIANS | WATER | VISUAL | | 24 OBS | BIMONTHLY | | |
| SPECIES DETERMINATION OF MAMMALS | LAND | KEY | | 24 OBS | BIMONTHLY | | |
| SPECIES DETERMINATION OF REPTILES | LAND | KEY | | 24 OBS | BIMONTHLY | | |
| SPECIES DETERMINATION OF AMPHIBIANS | WATER | KEY | | 24 OBS | BIMONTHLY | | |

DATA COLLECTED: SEPTEMBER 1973 TO DECEMBER 1973 RECEIVED: JULY 26, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, ANNE ARUNDEL COUNTY, BOOKIN NECK AREA

ABSTRACT:
BIOLOGICAL, PHYSICAL, AND CHEMICAL PARAMETERS WERE COLLECTED FROM SEPTEMBER THROUGH DECEMBER, 1973 TO PRODUCE A DATA BASELINE FOR THE QUEEN ANNE'S HARBOR, BROOKIN NECK AREA, MARYLAND. PARAMETERS INCLUDE SPECIES COUNT OF PLANTS, ANIMALS, AND FISH, NUTRIENTS, TEMPERATURE, SALINITY, METALS, TURBIDITY, AND DISSOLVED SOLIDS AND GASES.
(PROJECT CARRIED OUT BY JACK MCCORMICK AND ADDOCIATES FOR STATE OF MARYLAND)

DATA AVAILABILITY:
AVAILABLE UPON REQUEST FROM JACK MCCORMICK AND ASSOCIATES OFFICE IN BERWYN, PENNSYLVANIA

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
85 PAGES

FUNDING:
STATE OF MARYLAND, DEPARTMENT OF NATURAL RESURCES

INVENTORY:

PUBLICATIONS:

CONTACT:
JACK MCCORMICK 215 647 9000
JACK MCCORMICK AND ASSOCIATES
511 OLD LANCASTER ROAD
BERWYN PENNSYLVANIA USA 19312

GRID LOCATOR (LAT):
7307963100

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATIONS | 13 | STATIONS | 1 SURVEY | | |
| TIME | EARTH | STATION TIME | YMD | 13 | STATIONS | 1 SURVEY | | |
| TAXONOMIC LIST OF LAND PLANTS | LAND | KEY | QUALITATIVE | 1 | STATIONS | 1 SURVEY | | |
| COUNT OF BIRDS | AIR | VISUAL | QUALITATIVE | 6 | STATIONS | 1 SURVEY | | |
| SPECIES DETERMINATION OF BIRDS | AIR | KEY | QUALITATIVE | 6 | STATIONS | 1 SURVEY | | |
| COUNT OF AMPHIBIANS | WATER | VISUAL | QUALITATIVE | 6 | STATIONS | 1 SURVEY | | |
| SPECIES | WATER | KEY | QUALITATIVE | 6 | STATIONS | 1 SURVEY | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| DETERMINATION OF AMPHIBIANS SPECIES | LAND | KEY | QUALITATIVE | 6 | STATIONS | 1 SURVEY | | |
| DETERMINATION OF MAMMALS | | | | | | | | |
| COUNT OF MAMMALS | LAND | VISUAL | QUALITATIVE | 6 | STATIONS | 1 SURVEY | | |
| TEMPERATURE | WATER | RESISTANCE THERMOMETER | DEG C | 13 | STATIONS | 1 SURVEY | | |
| SALINITY | WATER | CONDUCTIVITY | PARTS/THOUSAND | 13 | STATIONS | 1 SURVEY | | |
| ELECTRICAL CONDUCTIVITY | WATER | LAB CONDUCTIVITY CELL | MHOS/CENTIMETER | 13 | STATIONS | 1 SURVEY | | |
| PH | WATER | PH METER | PH UNITS | 13 | STATIONS | 1 SURVEY | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MILLIGRAM/LITER | 13 | STATIONS | 1 SURVEY | | |
| ORGANIC CARBON | WATER | AUTOANALYZER | MILLIGRAM/LITER | 13 | STATIONS | 1 SURVEY | | |
| KJELDAHL NITROGEN | WATER | SPECTROPHOTOMETRY | MILLIGRAM/LITER | 13 | STATIONS | 1 SURVEY | | |
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | MILLIGRAM/LITER | 13 | STATIONS | 1 SURVEY | | |
| SULFATE | WATER | SPECTROPHOTOMETRY | MILLIGRAM/LITER | 13 | STATIONS | 1 SURVEY | | |
| SULFIDE | WATER | TITRATION | MILLIGRAM/LITER | 13 | STATIONS | 1 SURVEY | | |
| LIGHT ATTENUATIO N | WATER | COLORIMETRY | FTU | 13 | STATIONS | 1 SURVEY | | |
| COLOR | WATER | COLORIMETRY | PLATINUM-COBALT UNITS | 39 | OBS | 3 OBS/STATION | | |
| ZINC | WATER | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| MERCURY | WATER | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| COPPER | WATER | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| IRON | WATER | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| LEAD | WATER | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| KJELDAHL NITROGEN | SEDIMENT | SPECTROPHOTOMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| SULFIDE | SEDIMENT | TITRATION | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| PHOSPHATE | SEDIMENT | SPECTROPHOTOMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| CHEMICAL OXYGEN DEMAND | SEDIMENT | DIGESTION | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| OILS | SEDIMENT | EXTRACTION/ WEIGHT | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| ZINC | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| MERCURY | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| COPPER | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| IRON | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| LEAD | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER/1000 SQUARE FOOT SEINE AREA | 20 | OBS | 5 OBS/SURVEY | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | NUMBER/1000 SQUARE FOOT SEINE AREA | 20 | OBS | 5 OBS/SURVEY | | |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER/SQUARE FOOT | 13 | STATIONS | 1 SURVEY | | |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | NUMBER/SQUARE FOOT | 13 | STATIONS | 1 SURVEY | | |
| COUNT OF ZOOPLANKTON | WATER | VISUAL | NUMBER/CUBIC METER | 3 | OBS | 1 SURVEY | | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | NUMBER/CUBIC METER | 3 | OBS | 1 SURVEY | | |
| COUNT OF PHYTOPLANKTON | WATER | VISUAL | NUMBER/CUBIC METER | 3 | OBS | 1 SURVEY | | |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | NUMBER/CUBIC METER | 3 | OBS | 1 SURVEY | | |
| COUNT OF MICROBIOTA | WATER | VISUAL | NUMBER/100 MILLILITER | 39 | OBS | 3 OBS/STATION | | TOTAL BACTERIA; FECAL BACTERIA; TOTAL COLIFORM; TOTAL STREPTOCO CCI |
| TOTAL DISSOLVED SOLIDS | DISSOLVED | DESICCATION WEIGHT | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |
| PARTICULATE MATTER | WATER | MEMBRANE FILTRATION | MILLIGRAM/LITER | 39 | OBS | 3 OBS/STATION | | |

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SIMULIUM VITTATUM ZETTERSTEDT (DIPTERA: SIMULIIDAE) A POTENTIAL WATER QUALITY INDICATOR

DATA COLLECTED: FEBRUARY 1973 TO APRIL 1973

RECEIVED: AUGUST 12, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTHWESTERN DELAWARE, RED CLAY CREEK

ABSTRACT:
PRESENTED IN REPORT FORM ARE DATA COLLECTED DURING A STUDY CONDUCTED IN 1973 ON THE RED CLAY CREEK, DELAWARE TO DETERMINE IF THE LARVAE OF A COMMON INSECT SPECIES, THE BLACKFLY SIMULIUM VITTATUM, COULD BE USED AS AN INDICATOR ORGANISM OF WATER QUALITY.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
40 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
ALI, S.H., 1974. SIMULIUM VITTATUM ZETTERSTEDT (DIPTERA: SIMULIIDAE) A POTENTIAL WATER QUALITY INDICATOR. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 40 P.

CONTACT:
MORRIS LIBRARY 302 738 2455
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307954481

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 6 | STATIONS | | | RED CLAY CREEK |
| TIME | EARTH | STATION TIME | YMD | 36 | OBS | | | |
| COUNT OF INSECTS | LAND | VISUAL | MEAN NUMBER OF LARVAE PER BRICK PER OBS PER STATION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | AQUATIC INSECTS |
| TEMPERATURE | WATER | RESISTANCE THERMOMETER | DEG C | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| LIGHT ATTENUATIO N | WATER | SPECTROPHOTOMETRY | JACKSON TURBIDITY UNITS | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| PH | WATER | PH METER | PH UNITS | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| AMMONIA | WATER | TITRATION | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| NITRATE | WATER | TITRATION | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| ORTHOPHOSPHATE | WATER | COLORIMETRY | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| COUNT OF MICROBIOTA | WATER | FILTRATION | COLONIES PER 100 ML | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| IRON | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| ZINC | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| COPPER | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 36 | OBS | 1 OBS PER 1-2 WEEKS | | |
| SPECIES DETERMINATION OF INSECTS | LAND | KEY | | 36 | OBS | 1 OBS PER 1-2 WEEKS | | AQUATIC INSECTS |

DELMARVA ECOLOGICAL SURVEY PLANKTONIC AND BENTHIC ORGANISMS
DATA COLLECTED: JANUARY 1974 TO DECEMBER 1974



RECEIVED: AUGUST 12, 1976

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELMARVA PENINSULA, CHESAPEAKE AND DELAWARE CANAL

ABSTRACT:
DATA COLLECTED ON THE PLANKTONIC AND BENTHIC ORGANISMS FOUND IN THE CHESAPEAKE AND DELAWARE CANAL AND ADJACENT WATERS DURING THE 1974 ECOLOGICAL STUDY OF THE AQUATIC ENVIRONMENT IN THE VICINITY OF THE PROPOSED SUMMIT POWER STATION ARE PRESENTED IN REPORT FORM. SPECIES DETERMINATIONS AND DISTRIBUTIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ORGANISMS ARE GIVEN IN ORDER TO OBTAIN INFORMATION ABOUT DAILY AND SEASONAL CHANGES IN POPULATION STRUCTURE. VITALITY STUDIES ON THE ZOOPLANKTON ARE INCLUDED. THE RESULTS OF A COMPREHENSIVE ANALYSIS OF THE PHYSICAL/CHEMICAL ENVIRONMENT IN THE CANAL WATERS DURING THE BIOLOGICAL SAMPLING PROGRAM ARE ALSO AVAILABLE. MEASURED PARAMETERS INCLUDE COLIFORM COUNTS, NUTRIENTS, PIGMENTS, HEAVY METALS, OIL AND GREASE, TEMPERATURE, SALINITY, DISSOLVED OXYGEN GAS, PH, TURBIDITY AND TRANSPARENCY, HARDNESS, TOTAL ALKALINITY, CARBONATE ALKALINITY, SULFATE, TOTAL DISSOLVED SOLIDS, SUSPENDED SOLIDS, TOTAL PHOSPHORUS, DISSOLVED PHOSPHORUS, NITRATE-NITROGEN, NITRITE-NITROGEN, AMMONIA, ORGANIC NITROGEN, MAGNESIUM, CALCIUM AND TOTAL SILICA.

DATA AVAILABILITY:
UPON PERMISSION FROM DELMARVA POWER AND LIGHT COMPANY

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
REPORTS
103 PAGES

FUNDING:
DELMARVA POWER AND LIGHT COMPANY

INVENTORY:

PUBLICATIONS:
INTERPRETIVE REPORT 1974 BY RAYTHEON COMPANY FOR UNITED ENGINEERS AND CONSTRUCTORS INC., CLIENT: DELMARVA POWER AND LIGHT COMPANY; COMPLETE REPORT OF RAW DATA IN ANNUAL DATA REPORT

CONTACT:
HUDSON HOEN    302 479 3205
DELMARVA POWER AND LIGHT COMPANY
800 KING STREET
WILMINGTON DELAWARE USA 19899

GRID LOCATOR (LAT):
73079533

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 7 | STATIONS | | | |
| TIME | EARTH | STATION TIME | YMD | 7 | STATIONS | | | |
| TEMPERATURE | WATER | THERMISTOR | DEG F | 686 | OBS | BIWEEKLY TO MONTHLY | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER |
| SALINITY | WATER | TITRATION | PPT | 686 | OBS | BIWEEKLY TO MONTHLY | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | MG/L | 686 | OBS | BIWEEKLY TO MONTHLY | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER |
| PH | WATER | PH METER | PH UNITS | 686 | OBS | BIWEEKLY TO MONTHLY | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER |
| LIGHT ATTENUATIO N | WATER | COLORIMETRY | PERCENT TRANSMITTANCE, JTU | 686 | OBS | BIWEEKLY TO MONTHLY | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER |
| HARDNESS | WATER | EDTA TITRATION | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 2 STATIONS |
| TOTAL ALKALINITY | WATER | TITRATION | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 2 STATIONS |

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DELMARVA ECOLOGICAL SURVEY PLANKTONIC AND BENTHIC ORGANISMS (CONT.)

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | DECEMBER, BIWEEKLY - MARCH-OCTOBER | | |
| CARBONATE ALKALINITY | WATER | TITRATION | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 2 STATIONS |
| SULFATE | WATER | NEPHELOMETRY | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 2 STATIONS |
| TOTAL DISSOLVED SOLIDS | DISSOLVED | DESICCATION WEIGHT | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| TOTAL SOLIDS | WATER | DRY WEIGHT | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| PHOSPHORUS | WATER | COLORIMETRY | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 2 STATIONS |
| PHOSPHORUS | DISSOLVED | COLORIMETRY | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS: 2 STATIONS |
| AMMONIA | WATER | TITRATION | MG/L | 80 | OBS | MONTHLY - | SURFACE, | 1 SAMPLE PER |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | BOTTOM | OBS; 2 STATIONS |
| ORGANIC NITROGEN | WATER | TITRATION | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| NITRATE | WATER | COLORIMETRY | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| NITRITE | WATER | COLORIMETRY | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| OILS | WATER | EXTRACTION/ WEIGHT | MG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| MAGNESIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | UG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| CALCIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | UG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | MARCH-OCTOBER | | |
| ALUMINUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | UG/L | 80 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| SILICON | WATER | COLORIMETRY | MG/L | 60 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 1 SAMPLE PER OBS; 2 STATIONS |
| OILS | SEDIMENT | EXTRACTION/ WEIGHT | UG/KG | 5 | OBS | MONTHLY | | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | MG/L | 16 | OBS | MONTHLY | SURFACE | 4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 1 SAMPLE PER OBS |
| CADMIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 5 | OBS | MONTHLY | SURFACE | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| CHROMIUM | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 5 | OBS | MONTHLY | SURFACE | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| NICKEL | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 5 | OBS | MONTHLY | SURFACE | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| LEAD | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 5 | OBS | MONTHLY | SURFACE | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| ZINC | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 5 | OBS | MONTHLY | SURFACE | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| IRON | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 5 | OBS | MONTHLY | SURFACE | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| MERCURY | WATER | ATOMIC ABSORPTION SPECTROMETRY | MG/L | 5 | OBS | MONTHLY | SURFACE | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| CHROMIUM | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | UG/KG | 5 | OBS | MONTHLY | | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| NICKEL | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | UG/KG | 5 | OBS | MONTHLY | | 5 STATIONS; JULY; 1 SAMPLE PER OBS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| LEAD | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | UG/KG | 5 | OBS | MONTHLY | | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| ZINC | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | UG/KG | 5 | OBS | MONTHLY | | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| IRON | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | UG/KG | 5 | OBS | MONTHLY | | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| MERCURY | SEDIMENT | ATOMIC ABSORPTION SPECTROMETRY | UG/KG | 5 | OBS | MONTHLY | | 5 STATIONS; JULY; 1 SAMPLE PER OBS |
| COUNT OF MICROBIOTA | WATER | VISUAL | COLONIES PER 100 ML | 64 | OBS | MONTHLY | SURFACE, BOTTOM | TOTAL AND FECAL COLIFORM COUNT: 4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 2 SAMPLES PER OBS |
| CHLOROPHYLL A | WATER | FLUOROMETRY | MG/M3 | 4 | STATIONS | MONTHLY | SURFACE, BOTTOM | 4 STATIONS: JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS |
| TOTAL PHAEOPHYTI N | WATER | FLUOROMETRY | MG/M3 | 4 | STATIONS | MONTHLY | SURFACE, BOTTOM | 4 STATIONS: JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS |
| COUNT OF PHYTOPLANKTON | WATER | FILTRATION | NUMBER PER SPECIES PER ML PER SAMPLE | 560 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 7 STATIONS; 2 SAMPLES PER OBS |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | SPECIES PER ML PER SAMPLE | 560 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER | SURFACE, BOTTOM | 7 STATIONS; 2 SAMPLES PER OBS |
| COUNT OF ZOOPLANKTON | WATER | FIXED, STAINED, ALIQUOT | NUMBER PER SPECIES PER M3 PER SAMPLE | 560 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - | SURFACE, BOTTOM | 7 STATIONS; 2 SAMPLES PER OBS; 5-TENTHS M, 500-MICRON MESH NET USED IN SAMPLING; |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | MARCH- OCTOBER | | DAY SAMPLING |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | SPECIES PER M3 PER SAMPLE | 560 | OBS | MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER | SURFACE, BOTTOM | COUNT OF ZOOPLANKTON |
| MORTALITY OF ZOOPLANKTON | WATER | VISUAL | PERCENT OF TOTAL INDIVIDUALS PER SPECIES DEAD AT TIME OF SAMPLING PER SAMPLE | 16 | OBS | MONTHLY | SURFACE, BOTTOM | 2 STATIONS: 1 SAMPLE PER OBS: MARCH, JULY, SEPTEMBER , NOVEMBER |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | SPECIES PER SAMPLE | 135 | OBS | MONTHLY | | 5 STATIONS; 3 SAMPLES PER OBS; APRIL- NOVEMBER; 523 CM2 PONAR SAMPLER |
| COUNT OF BENTHIC ANIMALS | BOTTOM | MICROSCOPE | NUMBERS PER SPECIES PER SAMPLE | 135 | OBS | MONTHLY | | 5 STATIONS; 3 SAMPLES PER OBS; APRIL- NOVEMBER; 523 CM2 PONAR SAMPLER |
| REACTIVE PHOSPHATE | WATER | COLORIMETRY | UG/L | 72 | OBS | MONTHLY | SURFACE, BOTTOM | |

DATA COLLECTED: FEBRUARY 1973 TO APRIL 1973 RECEIVED: OCTOBER 15, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, PENNSYLVANIA, SOUTHERN CHESTER COUNTY, DELAWARE, NORTHERN NEW CASTLE COUNTY, RFD CLAY CREEK

ABSTRACT:
THIS FILE INCLUDES WATER QUALITY DATA PERTINENT TO A STUDY OF BLACKFLIES (SIMULIUM VITIATUM ZETTERSTEDT) IN THE RED CLAY CREEK WATERSHED OF SOUTHERN CHESTER COUNTY, PENNSYLVANIA AND NORTHERN NEW CASTLE COUNTY, DELAWARE. WATER QUALITY PARAMETERS MEASURED INCLUDE NITRATE, PHOSPHATE, AMMONIA, COLIFORMS, ZINC, BOD, IRON, TEMPERATURE, PH, DISSOLVED OXYGEN, TURBIDITY, AND FLY LARVAE COUNTS. THIS DATA IS INCLUDED IN AN M.S. THESIS, 1974, UNIVERSITY OF DELAWARE BY SYED HYDER ALI.

DATA AVAILABILITY:
AVAILABLE UPON REQUEST AT THE DEPARTMENT OF ENTOMOLOGY, UNIVERSITY OF DELAWARE

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
40 PAGES

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:
DATA REPORTED FROM M.S. THESIS BY SYED HYDER ALI, 1974, UNIVERSITY OF DELAWARE

CONTACT:
PAUL BURBUTIS 302 738 2526
UNIVERSITY OF DELAWARE
DEPARTMENT OF ENTOMOLOGY
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307954450

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATIONS | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| TIME | EARTH | STATION TIME | YMD | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| PH | WATER | PH METER | PH UNITS | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| NITRATE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| AMMONIA | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 48 | OBS | 1 OBS/WEEK/ STATION | | |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PHOSPHATE | WATER | SPECTROPHOTOMETRY | PARTS PER MILLION | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PARTS PER MILLION | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| COUNT OF MICROBIOTA | WATER | MICROSCOPE | NUMBER/100 MILLILITER | 48 | OBS | 1 OBS/WEEK/ STATION | | COLIFORM COUNTED |
| BIOCHEMICAL OXYGEN DEMAND | WATER | TITRATION | PARTS PER MILLION | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| IRON | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| ZINC | WATER | ATOMIC ABSORPTION SPECTROMETRY | PARTS PER MILLION | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| LIGHT ATTENUATIO N | WATER | COLORIMETRY | JTU | 48 | OBS | 1 OBS/WEEK/ STATION | | TURBIDIMETER |
| TEMPERATURE | WATER | REVERSING THERMOMETER | DEG C | 48 | OBS | 1 OBS/WEEK/ STATION | | |
| FECUNDITY OF INSECTS | LAND | VISUAL | NUMBER OF LARVAE/STATION | 48 | OBS | 1 OBS/WEEK/ STATION | | BLACK FLY LARVAE IN WATER COUNTED |

DATA COLLECTED: MAY 1974 TO MAY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., VIRGINIA, HAMPTON ROADS, JAMES RIVER, HOG ISLAND

ABSTRACT:
MISSION W276, FLIGHT 01, WAS ACCOMPLISHED ON MAY 26, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD CAMERAS, A T-11 AERIAL MAPPING CAMERA, AND A MULTICHANNEL OCEAN COLOR SENSOR IN COOPERATION WITH NASA'S LANGLEY RESEARCH CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY WATER POLLUTION AS RELATED TO EUTROPHICATION LEVELS IN THE JAMES RIVER FROM HOPEWELL TO THE HAMPTON ROADS/CRANEY ISLAND INDUSTRIAL WATERFRONT.
(MISSION W276, FLIGHT 01 )

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
284 70MM PRINTS; 71 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
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NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077733 73077625 73076653 73076643

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | LONGITUDE AND LATITUDE | 355 | OBS | | | |
| TIME | EARTH | STATION TIME | YMD | 355 | OBS | 5 FLIGHTS PER LINE | | |
| PHOTOGRAPH | EARTH | COLOR CAMERA FROM AIRCRAFT | PRINT | 284 | OBS | 5 FLIGHTS PER LINE | 3000 AND 17,500 FEET | 152 AND FOUR-TENTHS MM FOCAL LENGTH |
| PHOTOGRAPH | EARTH | IR CAMERA FROM AIRCRAFT | PRINT | 71 | OBS | 5 FLIGHTS PER LINE | 3000 AND 17,500 FEET | 40MM FOCAL LENGTH |

008869 AN ASSESSMENT OF ECONOMIC AND ENVIRONMENTAL EFFECTS OF COMPLETED PL-566 CHANNEL MODIFICATION PROJECTS IN WORCESTER AND WICOMICO COUNTIES, MARYLAND 

DATA COLLECTED: SEPTEMBER 1974 TO OCTOBER 1975

RECEIVED: MAY 13, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, WORCESTER AND WICOMICO COUNTIES

ABSTRACT:
FROM SEPTEMBER 1974 THROUGH OCTOBER 1975 A FIELD STUDY OF THE WATER FLOW, WATER LEVEL, WATER QUALITY, AND INVERTEBRATE AND FISH POPULATIONS OF STREAMS AND OF THE TERRESTRIAL VEGETATION BORDERING STREAMS WAS CONDUCTED IN SEVEN WATERSHEDS IN WORCESTER AND WICOMICO COUNTIES, MARYLAND TO AID IN AN ENVIRONMENTAL AND ECONOMIC ASSESSMENT OF STREAM MODIFICATIONS WHICH HAD BEEN INSTALLED UNDER PROVISIONS OF THE WATERSHED PROTECTION AND FLOOD PREVENTION ACT. FINDINGS WERE PRESENTED IN THE COMPREHENSIVE ENVIRONMENTAL ASSESSMENT REPORT.
(REPORT PREPARED FOR U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, COLLEGE PARK, MARYLAND 20740; MAPS OF TOPOGRAPHY, GEOLOGY, SOILS, AND TERRESTRIAL COMMUNITIES INCLUDED IN REPORT )

DATA AVAILABILITY:
REPORT AVAILABLE FOR ON SITE USE OR PHOTOCOPY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
424 PAGE INHOUSE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

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ROCKAWAY NEW JERSEY USA 07866

GRID LOCATOR (LAT):
73078500 73078501 73078502 73078503 73078504 73078505 73078510 73078511 73078512 73078513 73078514 73078515 73078520 73078521 73078522 73078523 73078524 73078525

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | FIXED POINT | MAP LOCATION | 53 | STATIONS | | | 19 STREAMS, 14 WELLS, 20 FOREST STATIONS |
| TIME | EARTH | STATION TIME | YMD | 1107 | OBS | | | |
| WATER TRANSPORT | WATER | FLOW METER | CUBIC FEET/ SECOND | 303 | OBS | | | 5 FLOW GAGE STATIONS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| WATER TABLE ELEVATION | LAND | DIRECT | FEET BELOW GROUND LEVEL | 250 OBS | 1 OBS STATION/ 2 WEEKS | | |
| WATER LEVEL | WATER | VISUAL | FEET BELOW GROUND LEVEL | 216 OBS | 1 OBS STATION/ 2 WEEKS | | |
| TEMPERATURE | WATER | NON-REVERSING THERMOMETER | DEG C | 206 OBS | 1 OBS/STATION/ MONTH | | |
| DISSOLVED OXYGEN GAS | WATER | TITRATION | MG/L | 206 OBS | 1 OBS/STATION/ MONTH | | |
| PH | WATER | PH METER | PH UNITS | 206 OBS | 1 OBS/STATION/ MONTH | | |
| LIGHT ATTENUATIO N | WATER | COLORIMETRY | JACKSON TURBIDITY UNITS | 206 OBS | 1 OBS/STATION/ MONTH | | |
| TOTAL SOLIDS | SUSPENDED | DRY WEIGHT | MG/L | 206 OBS | 1 OBS/STATION/ MONTH | | |
| PHOSPHORUS | WATER | AUTOANALYZER | MG/L | 206 OBS | 1 OBS/STATION/ MONTH | | |
| NITRATE PLUS NITRITE | WATER | AUTOANALYZER | MG/L | 206 OBS | 1 OBS/STATION/ MONTH | | |
| AMMONIA | WATER | AUTOANALYZER | MG/L | 206 OBS | 1 OBS/STATION/ MONTH | | |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | SPECIES | 22 OBS | | | |
| COUNT OF BENTHIC ANIMALS | BOTTOM | VISUAL | NUMBER/SPECIES | 22 OBS | | | |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | SPECIES | 9 OBS | | | |
| COUNT OF ZOOPLANKTON | WATER | FIXED, UNSTAINED, ALIQUOT | NUMBER/SPECIES/ CUBIC METER | 9 OBS | | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | SPECIES | 11 OBS | | | |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER/SPECIES | 11 OBS | | | |
| LENGTH OF PELAGIC FISH | WATER | TOTAL LENGTH | RANGE IN MILLIMETERS/ SPECIES | 11 OBS | | | |
| WEIGHT OF PELAGIC FISH | WATER | WET WEIGHT | RANGE IN GRAMS/ SPECIES | 11 OBS | | | |
| SPECIES DETERMINATION OF LAND PLANTS | LAND | KEY | SPECIES | 120 OBS | | | TREES EQUAL TO OR EXCEEDING 2 INCHES DBH; UNDERSTORY VEGETATION |
| COUNT OF LAND PLANTS | LAND | VISUAL | NUMBER/SPECIES | 100 OBS | | | TREES EQUAL TO OR EXCEEDING 2 INCHES DBH |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|
| ORTHOPHOSPHATE | WATER | AUTOANALYZER | MG/L | 206 OBS | 1 OBS/STATION/ MONTH | | |

008887

ECOLOGICAL STUDIES IN THE BAYS AND OTHER WATERWAYS NEAR LITTLE EGG INLET AND IN THE OCEAN IN THE VICINITY OF THE PROPOSED SITE FOR THE ATLANTIC GENERATING STATION, NEW JERSEY, PART ONE AND PART TWO



DATA COLLECTED: JANUARY 1972 TO MARCH 1973

RECEIVED: MAY 13, 1977

PROJECTS:
ATLANTIC GENERATING STATION PROJECT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., NEW JERSEY

ABSTRACT:
AN ECOLOGICAL STUDY OF THE TERRESTRIAL AND MARINE ENVIRONMENTS OF THE CENTRAL NEW JERSEY COASTLINE IN THE VICINITY OF THE PROPOSED OFFSHORE ATLANTIC GENERATING STATION WAS CONDUCTED DURING JANUARY 1972 THROUGH MARCH 1973. SEASONAL POPULATIONS AND DISTRIBUTIONS OF MAMMALS, BIRDS, REPTILES, AMPHIBIANS, LAND PLANTS, PELAGIC AND DEMERSAL FISH, ICHTHYOPLANKTON, ZOOPLANKTON, PHYTOPLANKTON, AND BENTHIC ANIMALS WERE DETERMINED. MEASUREMENTS OF WATER TEMPERATURE, SALINITY, DISSOLVED OXYGEN CONCENTRATION, AND SECCHI DEPTH WERE TAKEN WITH ALL SAMPLES OF MARINE ORGANISMS.
(REPORT PREPARED IN JULY 1973 BY ICHTHYOLOGICAL ASSOCIATES, ITHACA, NEW YORK 14850 )

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CONTACT:
PROJECT MANAGER-ATLANTIC GENERATING STATION 201 622 7000
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
80 PARK PLACE
NEWARK NEW JERSEY USA 07101

GRID LOCATOR (LAT):
73079410 73079411 73079412 73079413 73079420 73079421 73079422 73079423 73079430 73079431 73079432 73079433 73079440 73079441 73079442

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| POSITION | EARTH | VARIOUS | MAP OR CHART LOCATION-DM | 220 | STATIONS | | | FIXED POINT; LONG RANGE NAVIGATIONAL NET |
| TIME | EARTH | STATION TIME | YMDH | 2730 | OBS | | | |
| SPECIES DETERMINATION OF PELAGIC FISH | WATER | KEY | SPECIES/OBS/ STATION | 9 | OBS | | SURFACE TO 10 FEET | 8 GILL NET STATIONS |
| COUNT OF PELAGIC FISH | WATER | VISUAL | NUMBER/SPECIES/ OBS/STATION | 9 | OBS | | SURFACE TO 10 FEET | 8 GILL NET STATIONS |
| SPECIES DETERMINATION OF DEMERSAL FISH | WATER | KEY | SPECIES/OBS/ STATION | 1491 | OBS | 1 OBS/STATION/ 2 WEEKS | | 61 SEINE STATIONS, 47 TRAWL STATIONS |
| COUNT OF DEMERSAL FISH | WATER | VISUAL | NUMBER/SPECIES/ OBS/STATION | 1491 | OBS | 1 OBS STATION/ 2 WEEKS | | 61 SEINE STATIONS, 47 TRAWL STATIONS |
| SPECIES DETERMINATION OF ZOOPLANKTON | WATER | KEY | SPECIES/CUBIC METER/OBS/ STATION | 699 | OBS | 1 OBS/STATION/ WEEK | SURFACE, MIDWATER, BOTTOM | FIXED, UNSTAINED , ALIQUOT; FIXED, STAINED, ALIQUOT 20 ICHTHYOPLANKTON STATIONS, 20 ZOOPLANKTON STATIONS |
| COUNT OF ZOOPLANKTON | WATER | VARIOUS | NUMBER/SPECIES/ CUBIC METER/ OBS/STATION | 699 | OBS | 1 OBS/STATION/ WEEK | SURFACE, MIDWATER, BOTTOM | FIXED, UNSTAINED , ALIQUOT; FIXED, STAINED, ALIQUOT 20 ICHTHYOPLANKTON STATIONS, 20 ZOOPLANKTON STATIONS |
| SPECIES DETERMINATION OF PHYTOPLANKTO N | WATER | KEY | SPECIES/LITER/ OBS/STATION | 3 | OBS | | SURFACE, 10, 20 METERS | 1 PHYTOPLANKTON STATION |
| COUNT OF PHYTOPLANKTON | WATER | COUNTING CHAMBER | NUMBER/SPECIES/ LITER/OBS/ STATION | 3 | OBS | | SURFACE, 10, 20 METERS | 1 PHYTOPLANKTON STATION |
| SPECIES DETERMINATION OF BENTHIC ANIMALS | BOTTOM | KEY | SPECIES/OBS/ STATION | 461 | OBS | 1 OBS/STATION/ MONTH | | 11 TRAWL STATIONS, 9 PONARGRAB AND CLAM DREDGE STATIONS, 22 BEACH SIEVE STATIONS |
| COUNT OF BENTHIC | BOTTOM | VISUAL | NUMBER/SPECIES/ OBS/STATION | 461 | OBS | 1 OBS/STATION/ MONTH | | 11 TRAWL STATIONS, 9 |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| ANIMALS | | | | | | | | PONARGRAB AND CLAM DREDGE STATIONS, 22 BEACH SIEVE STATIONS |
| NITRATE | WATER | AUTOANALYZER | UG-AT/L | 54 | OBS | 2 OBS/STATION/ 2 WEEKS | SURFACE, BOTTOM | 15 NUTRIENT STATIONS |
| NITRITE | WATER | AUTOANALYZER | UG-AT/L | 54 | OBS | 2 OBS STATION/ 2 WEEKS | SURFACE, BOTTOM | |
| NITRATE PLUS NITRITE | WATER | AUTOANALYZER | UG-AT/L | 116 | OBS | 2 OBS STATION/ 2 WEEKS | SURFACE, BOTTOM | |
| AMMONIA | WATER | AUTOANALYZER | UG-AT/L | 52 | OBS | 2 OBS STATION/ 2 WEEKS | SURFACE, BOTTOM | |
| SILICATE | WATER | AUTOANALYZER | UG-AT/L | 170 | OBS | 2 OBS STATION/ 2 WEEKS | SURFACE, BOTTOM | |
| ORTHOPHOSPHATE | WATER | AUTOANALYZER | UG-AT/L | 170 | OBS | 2 OBS STATION/ 2 WEEKS | SURFACE, BOTTOM | |
| SALINITY | WATER | VARIOUS | PPT | 3600 | OBS | | SURFACE, BOTTOM | INDEX OF REFRACTION; CONDUCTIVITY |
| DISSOLVED OXYGEN GAS | WATER | SPECIFIC ION ELECTRODE | PPM | 3100 | OBS | | SURFACE, BOTTOM | |
| TEMPERATURE | WATER | THERMISTOR | DEG C | 3600 | OBS | | SURFACE, BOTTOM | |
| SECCHI DISC DEPTH | WATER | DISAPPEARING DEPTH | INCHES OR FEET | 1900 | OBS | | | |
| TIDAL PHASE | WATER | VISUAL | EBB/FLOOD | 2730 | OBS | | | |
| TEMPERATURE | AIR | THERMISTOR | DEG C | 2730 | OBS | | | |
| SPECIES DETERMINATION OF LAND PLANTS | LAND | KEY | SPECIES/STATION | 6 | STATIONS | | | |
| SPECIES DETERMINATION OF BENTHIC PLANTS | LAND | KEY | SPECIES/STATION | 6 | STATIONS | | | |
| COUNT OF LAND PLANTS | LAND | VISUAL | DEGREE OF OCCURRENCE/ SPECIES/ STATION | 6 | STATIONS | | | |
| COUNT OF BENTHIC PLANTS | LAND | VISUAL | DEGREE OF OCCURRENCE/ SPECIES/ STATION | 6 | STATIONS | | | |
| SPECIES DETERMINATION OF REPTILES | LAND | KEY | SPECIES/STATION | 6 | STATIONS | | | |
| SPECIES DETERMINATION OF AMPHIBIANS | WATER | KEY | SPECIES/STATION | 6 | STATIONS | | | |
| SPECIES DETERMINATION | LAND | KEY | SPECIES/OBS/ STATION | 19 | OBS | | | TRAPS, 13 STATIONS |

PARAMETER IDENTIFICATION SECTION:

| NAME | SPHERE | METHOD | UNITS | DATA AMOUNT | | FREQUENCY | HEIGHT/DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| OF MAMMALS | | | | | | | | |
| COUNT OF MAMMALS | LAND | VISUAL | NUMBER/SPECIES/ OBS/STATION | 19 | OBS | | | TRAPS, 13 STATIONS |
| SPECIES DETERMINATION OF BIRDS | AIR | KEY | SPECIES/OBS/ STATION | 12 | OBS | 1 OBS/STATION/ MONTH | | ROAD CENSUS, 2 STATIONS |
| COUNT OF BIRDS | AIR | VISUAL | NUMBER/SPECIES/ OBS/STATION | 12 | OBS | 1 OBS/STATION/ MONTH | | ROAD CENSUS, 2 STATIONS |
| NUMBER OF NESTS | LAND | VISUAL | NUMBER/SPECIES/ STATION | 2 | STATIONS | | | BIRDS NEST-2 HERONRIES |
| FECUNDITY OF BIRDS | AIR | VISUAL | NUMBER OF YOUNG AND EGGS/ SPECIES/ STATION | 1 | STATIONS | | | 1 HERONRY |

ANNEX II

Data Files

Part B

Data File Index - Listed by Key Word

Eutrophication

This index contains an alphabetical listing by key word of the data files in this annex. After some key words is a number or series of numbers which reference the page numbers of the particular file(s) within this report. Most of the files are referenced by more than one key word. Underlined numbers indicate files generated after January 1, 1973.

The key words which do not reference any relevant files are included to indicate the extent of the file search.

ANNEX II

Part B
Data File Index-Listed by Key Word

Eutrophication


ammonia (dissolved)
none

ammonia (interstitial)
none

ammonia (sediment)
20, 208

ammonia (water)
6, 20, 34, 40, 54, 69, 71, 86, 98, 120, 123, 150, 154, 156, 158, 160, 171, 177, 179, 184, 192, 198, 200, 202, 206, 216, 236, 244, 265, 278, 280, 287 290, 293

ammonia uptake velocity
none

apparent oxygen utilization (sediment)
none

apparent oxygen utilization (water)
210

bicarbonate alkalinity (water)
179, 184

bicarbonate ion (water)
120, 236, 239

biochemical oxygen demand (sediment)
none

biochemical oxygen demand (water)
23, 28, 30, 38, 120, 130, 136, 171, 177, 179, 184, 236, 263, 265, 270, 278, 280, 287

biochemical oxygen demand
use biochemical oxygen demand

biomass of phytoplankton (water)
198, 200

biomass of zooplankton (water)
74, 76, 158, 239

BOD
use biochemical oxygen demand

carbon (dissolved)
none

carbon (interstitial)
none

carbon (sediment)
none

carbon (suspended)
none

carbon (water)
63, 204

carbon monoxide (water)
none

carbon/nitrogen ratio (sediment)
none

carbon/nitrogen ratio (water)
none

carbonate alkalinity (interstitial)
none

carbonate alkalinity (water)
6, 120, 179, 184, 280

carbonate compensation depth (water)
none

carbonate ion (water)
120, 236, 239

chemical oxygen demand (sediment)
82, 94, 104, 275

chemical oxygen demand (water)
<u>136</u>, 265

chlorophyll a (sediment)
none

chlorophyll a (water)
20, 34, 54, 59, 69, 71, 98, 101, 110, 112, 114, 116, 118, 126, 134, 143, 150, 152, 156, 158, 160, 214, 216, 218, <u>221</u>, 236, 239, 244, 249, 261, <u>280</u>

chlorophyll b (sediment)
none

chlorophyll b (water)
112, 114, 116, 126, 239, 244

chlorophyll c (sediment)
none

chlorophyll c (water)
112, 114, 116, 126, 239, 244

$CO_2$
use dissolved carbon dioxide gas, total carbon dioxide

COD
use chemical oxygen demand

count of phytoplankton (water)
20, 51, 54, 88, 108, 112, 114, 116, 118, 126, <u>141</u>, 154, <u>198</u>, <u>200</u>, 202, 214, <u>273</u>, <u>275</u>, <u>280</u>, 293

count of zooplankton (water)
51, 74, 76, 101, 108, 110, 145, 202, 212, 239, 242, <u>275</u>, <u>280</u>, <u>290</u>, 293

diffuse attenuation coefficient (water)
none

disappearing depth of secchi disc
use secchi disc depth

dissolved carbon dioxide gas (dissolved)
none

dissolved carbon dioxide gas (interstitial)
none

dissolved carbon dioxide gas (water)
236

dissolved nitrate
use nitrate (interstitial, dissolved)

dissolved organic carbon
use carbon, inorganic carbon, organic carbon

dissolved oxygen
use dissolved oxygen gas

dissolved oxygen gas (interstitial)
none

dissolved oxygen gas (water)
6, 9, 15, 17, 18, 20, 23, 26, 28, 30, 32, 34, 36, 38, 40, 44, 46, 48, 51, 61, 63, 69, 71, 74, 76, 78, 80, 88, 98, 101, 106, 108, 112, 114, 116, 118, 120, 123, 130, 132, 136, 138, 139, 143, 145, 150, 152, 154, 158, 160, 164, 166, 168, 171, 177, 179, 184, 192, 198, 200, 202, 204, 206, 214, 216, 223, 231, 236, 239, 242, 244, 249, 261, 263, 265, 268, 273, 275, 278, 280, 287, 290, 293

dissolved phosphate (sediment)
use phosphate (interstitial)

dissolved phosphorus
use phosphorus (dissolved)

DO
use dissolved oxygen gas

DOC
use organic carbon (dissolved)

DON
use organic nitrogen (dissolved)

exchangeable ammonia (sediment)
none

extinction coefficient
use light extinction

fixed total solids (water)
154

free carbon dioxide
use dissolved carbon dioxide gas

heterotrophic rate (sediment)
none

heterotrophic rate (water)
6, 152, 202

humic matter (water)
none

hydroxide alkalinity (water)
none

inorganic carbon (dissolved)
63, 98

inorganic carbon (sediment)
128, 147

inorganic carbon (water)
126

inorganic nitrogen (sediment)
none

inorganic nitrogen (water)
none

inorganic phosphate
use orthophosphate

inorganic phosphorus (dissolved)
173, 229, 257

inorganic phosphorus (suspended)
none

kjeldahl nitrogen (dissolved)
none

kjeldahl nitrogen (sediment)
275

kjeldahl nitrogen (suspended)
none

kjeldahl nitrogen (water)
273, 275

light attenuation (water)
6, 23, 26, 28, 30, 32, 36, 38, 44, 46, 48, 59, 74, 76, 110, 112, 114, 116, 118, 120, 134, 164, 166, 168, 179, 184, 194, 202, 236, 275, 278, 280, 287, 290

light extinction (water)
61, 78, 86, 88, 98, 101, 231

light intensity (water)
none

light scattering coeficient (water)
231, 265

light transmission
use light attenuation

metaphosphate
use unreactive phosphate

methyl orange alkalinity (water)
none

nitrae (dissolved)
236

nitrate (interstitial)
none

nitrate (sediment)
20, 208, 268

nitrate (suspended)
none

nitrate (water)
6, 17, 18, 20, 54, 65, 67, 69, 71, 74, 76, 86, 88, 98, 101, 110, 120, 123, 126, 130, 132, 136, 138, 139, 143, 145, 150, 152, 154, 156, 160, 164, 166, 168, 171, 177, 179, 184, 192, 194, 198, 200, 202, 206, 216, 218, 223, 231, 239, 242, 244, 246, 248, 249, 251, 259, 261, 265, 270, 278, 280, 287, 293

nitrate - nitrogen
use nitrate

nitrate plus nitrite (dissolved)
none

nitrate plus nitrite (water)
34, 158, 290, 293

nitrate uptake velocity (water)
none

nitric oxide (water)
none

nitrite (dissolved)
none

nitrite (interstitial)
none

nitrite (sediment)
20, 208

nitrite (water)
18, 20, 54, 65, 67, 69, 71, 74, 76, 98, 120, 123, 126, 130, 132, 138, 143, 145, 150, 152, 154, 156, 160, 166, 168, 171, 179, 184, 198, 200, 202, 206, 216, 218, 231, 239, 244, 246, 248, 249, 259, 261, 265, 270, 280, 293

nitrite - nitrogen
use nitrite

nitrogen (dissolved)
160

nitrogen (sediment)
208

nitrogen (suspended)
none

nitrogen (water)
54, 150, 171, 204

nitrogen/carbon ratio
use carbon/nitrogen ratio

nitrogen dioxide (dissolved)
none

nitrogen/phosphorus ratio (water)
none

nitrogen uptake
use photosynthetic rate

nitrous oxide (dissolved)
none

organic carbon (dissolved)
63, 98, 145, 156, 158, 160, 231

organic carbon (interstitial)
210

organic carbon (sediment)
20, 57, 128, 147, 162, 182, 196, 208, 225, 253

organic carbon (suspended)
54, 61, 63, 88, 156, 160, 231

organic carbon (water)
34, 63, 96, 106, 202, 236, 275

organic carbon flux (suspended)
none

organic carbon/nitrogen ratio (sediment)
none

organic nitrogen
20, 54, 69, 71, 98, 156, 160

organic nitrogen (sediment)
20, 82, 90, 94, 104

organic nitrogen (suspended)
20, 54, 143, 150, 156, 160

organic nitrogen (water)
67, 69, 171, 192, 280

organic phosphate (dissolved)
none

organic phosphate (sediment)
none

organic phosphate (suspended)
none

organic phosphate (water)
none

organic phosphorus (dissolved)
158, 173, 192, 229, 257

organic phosphorus (sediment)
none

organic phosphorus (suspended)
192

organic phosphorus (water)
88, 192, 270

orthophosphate (dissolved)
none

orthophosphate (interstitial)
none

orthophosphate (sediment)
none

orthophosphate (suspended)
none

orthophosphate (water)
6, 9, 15, 17, 18, 34, 54, 69, 71, 88, 98, 110, 120, 123, 126, 130, 132, 136, 138, 139, 152, 154, 156, 160, 164, 166, 168, 179, 194, 216, 223, 227, 236, 239, 249, 251, 255, 261, 265, 270, 278, 290, 293

oxidation rate (water)
none

oxygen (suspended)
none

oxygen consumption
use apparent oxygen utilization

partial pressure of carbon dioxide
use dissolved carbon dioxide (water)

partial pressure of oxygen
use dissolved oxygen gas

particulate organic carbon
use organic carbon

$PCO_2$
use dissolved carbon dioxide gas

pH (interstitial)
none

pH (water)
6, 9, 15, 17, 18, 20, 23, 26, 28, 30, 32, 36, 38, 40, 44, 46, 48, 51, 69, 92, 120, 123, 130, 136, 139, 145, 150, 154, 164, 166, 168, 173, 175, 179, 184, 194, 208, 216, 225, 229, 236, 239, 244, 246, 248, 249, 251, 253, 257, 259, 261, 263, 265, 268, 270, 275, 278, 280, 287, 290

phaeophytin a (sediment)
196

phaeophytin a (water)
156, 218

phaeophytin b (water)
none

phaeophytin c (water)
none

phenolphthalein alkalinity (water)
179

phosphate (dissolved)
none

phosphate (interstitial)
none

phosphate (sediment)
275

phosphate (suspended)
none

phosphate (water)
9, 15, 34, 44, 46, 48, 98, 101, 154, 177, 179, 184, 218, 239, 251, 273, 275, 287

phosphorus (dissolved)
54, 69, 71, 160, 280

phosphorus (interstitial)
none

phosphorus (sediment)
20, 82, 90, 94, 104, 128, 147, 182, 208

phosphorus (suspended)
173, 216, 229, 257

phosphorus (water)
6, 20, 54, 65, 67, 71, 74, 76, 120, 123, 143, 145, 150, 160, 171, 198, 200, 202, 204, 206, 216, 221, 229, 249, 257, 261, 280, 290

phosphorus uptake
use heterotrophic rate

photograph (earth) (aerial) (sewage)
25, 272, 289

photosynthetic rate (bottom)
none

photosynthetic rate (water)
6, 54, 59, 61, 71, 78, 80, 98, 101, 108, 112, 114, 116, 118, 126, 152, 156, 160, 175, 202

phytoplankton
use biomass of phytoplankton, count of phytoplankton, species determination of phytoplankton, taxonomic list of phytoplankton, volume determination of phytoplankton

plankton
use phytoplankton, zooplankton

primary productivity
use heterotrophic rate, photosynthetic rate

reactive nitrate (water)
none

reactive phosphate (sediment)
182

reactive phosphate (water)
20, 65, 143, 150, 231, 244, 280

reactive phosphorus
use reactive phosphate

secchi disc depth (water)
20, 34, 44, 46, 48, 51, 59, 74, 76, 92, 98, 101, 112, 114, 116, 118, 123, 139, 143, 150, 154, 156, 198, 200, 202, 216, 223, 242, 244, 293

solids
use fixed total solids, total solids, volatile dried solids, volatile total solids

species determination of phytoplankton (water)
54, 88, 92, 112, 114, 116, 118, 126, 141, 154, 177, 198, 200, 202, 214, 273, 275, 280, 293

species determination of zooplankton (water)
51, 74, 76, 92, 110, 145, 150, 177, 202, 212, 242, 275, 280, 290, 293

suspended solids
use fixed total solids, total solids, volatile dried solids, volatile total solids

taxonomic list of phytoplankton (water)
20, 154, 239

taxonomic list of zooplankton (water)
239

total alkalinity (interstitial)
none

total alkalinity (sediment)
none

total alkalinity (water)
20, 23, 32, 38, 40, 44, 46, 48, 69, 98, 143, 150, 166, 168, 179, 184, 194, 214, 236, 251, 265, 268, 280

total carbon dioxide (interstitial)
none

total carbon dioxide (water)
120, 164, 194, 214

total chlorophyll (sediment)
none

total chlorophyll (water)
9, 15, 84, 88, 108, 141, 192, 202, 212, 242

total dissolved nitrogen
use nitrogen (dissolved)

total dissolved phosphate
use phosphate (dissolved)

total dissolved phosphorus
use phosphorus (dissolved)

total organic matter
use organic carbon

total oxidants (water)
194

total phaeophytin (water)
231, 280

total solids (sediment)
82, 94, 104, 268

total solids (suspended)
273, 290

total solids (water)
23, 36, 38, 51, 154, 184, 280

transparency
use light attenuation, secchi disc depth

turbidity
use light attenuation, light scattering coefficient

unreactive phosphate (water)
18, 20, 143, 150, 265

volatile dried solids (sediment)
none

volatile total solids (sediment)
82, 94, 104

volume determination of phytoplankton (water)
214

volume determination of zooplankton (water)
110, 212

weight of phytoplankton (water)
none

weight of zooplankton (water)
none

zooplankton
use biomass of zooplankton, count of zooplankton, species determination of zooplankton, taxonomic list of zooplankton, volume determination of zooplankton

# ANNEX III

## Monitoring Programs

## Eutrophication

The monitoring programs identified for this report form three categories, as follows:

Continuous monitoring programs presently active in the Chesapeake Bay - 32 files.

Continuous monitoring programs initiated after January 1967 that have operated five (5) years or longer, but are presently not operational - 0 files.

Continuous monitoring programs initiated prior to January 1967 that have operated ten (10) years or longer and are presently not operational - 1 file.

The programs are arranged by date of initiation, earliest first.

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DATA COLLECTED: 1949 TO PRESENT

MONITORING PROJECTS:
UNITED STATES GEOLOGICAL SURVEY - PHILADELPHIA WATER DEPARTMENT MONTHLY COOPERATIVE STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., DELAWARE BAY, MARCUS HOOK, PENNSYLVANIA TO BURLINGTON, NEW JERSEY

ABSTRACT:
SINCE 1949 THE PHILADELPHIA WATER DEPARTMENT AND THE USGS HAVE CONDUCTED A MONTHLY SURVEY OF THE WATER QUALITY OF THE DELAWARE ESTUARY. SAMPLING IS CROSS-SECTIONAL AT EIGHT POINTS BETWEEN MARCUS HOOK, PA. AND BURLINGTON, NJ. AT EACH POINT, SAMPLES ARE TAKEN THREE FEET BELOW THE SURFACE AND THREE FEET ABOVE THE BOTTOM AT EACH SHORE, MID CHANNEL, AND MIDWAY BETWEEN EACH SHORE AND MID CHANNEL. THE DATA DEMONSTRATE HORIZONTAL STRATIFICATION OF THE ESTUARY AS WELL AS VERTICAL HOMOGENEITY. PARAMETERS MEASURED INCLUDE: TIME, TEMPERATURE, PH, SPECIFIC CONDUCTIVITY, DISSOLVED OXYGEN, BOD, CHLORIDE, AND SUSPENDED SEDIMENT. (DATA WILL BE ASSEMBLED IN REPORT AND ADDED TO STORET IN 1976.)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215-686-1776
PHILADELPHIA WATER DEPARTMENT
1270 MSB 15TH AND JFK BLVD
PHILADELPHIA, PENNSYLVANIA, USA 19107

GRID LOCATOR:
COMPLETE FILE DESCRIPTION IN ANNEX II, PAGE 263.

DATA COLLECTED: 1957 TO 1972

MONITORING PROJECTS:
BECKETT NEWTON, GLOUCESTER COUNTY, NEW JERSEY - REPORT FOR LANDTECT CORPORATION

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NEW JERSEY, GLOUCESTER COUNTY

ABSTRACT:
THIS REPORT IS AN ENVIRONMENT IMPACT STATEMENT DISCUSSING THE SITE FOR A POTENTIAL HOUSING DEVELOPMENT. IT INCLUDES A COMPLETE REPORT ON SOIL CHARACTERISTICS AND SUITABILITY FOR VARIOUS PURPOSES, CLIMATIC, WATER QUALITY, HYDROLOGIC, GEOLOGIC, FAUNAL AND FLORA DATA. IT HAS IN ADDITION, AN EXTENSIVE BIBLIOGRAPHY. WATER ANALYSES WERE DONE BY AN INDEPENDENT LAB AND METHODS WERE NOT REPORTED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. JAMES A. SCHMID 215-647-3110
JACK MCCORMICK AND ASSOCIATES
860 WATERLOO ROAD
DEVON, PENNSYLVANIA, USA 19333

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 268.

DATA COLLECTED: JULY 1962 TO PRESENT

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MONITORING PROJECTS:
DELAWARE ESTUARY WATER QUALITY SURVEILLANCE PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON NEW JERSEY

ABSTRACT:
SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA. TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTH- AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM. (DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILWDPT)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215-686-1776
PHILADELPHIA WATER DEPARTMENT
RESEARCH AND DEVELOPMENT DIVISION
1270 MSB 15TH AND JFK BLVD.
PHILADELPHIA, PENNSYLVANIA, USA 19107

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 265.

DATA COLLECTED: JANUARY 1964 TO PRESENT

MONITORING PROJECTS:
MICROBIOLOGICAL ANALYSIS OF ESTUARINE ENVIRONMENTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
ANALYSIS OF CHESAPEAKE BAY SEDIMENTS FOR BACTERIA AND VIRAL COMPONENTS WITH ANCILLARY DATA ON WATER TEMPERATURE, D. O., SALINITY AND NUTRIENTS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. R. R. COLWELL 301-454-2848
DEPARTMENT OF MICROBIOLOGY
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND, USA 20742

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 204.



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DATA COLLECTED: 1964 TO PRESENT

MONITORING PROJECTS:
WATER RESOURCES DATA FOR PENNSYLVANIA, WATER QUALITY RECORDS

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U. S., PENNSYLVANIA

ABSTRACT:
THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBONDIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA, FE AND MN, COLIFORM AND STREPTOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
P. DEMARTE 717-782-4514
UNITED STATES GEOLOGICAL SURVEY
228 WALNUT STREET
HARRISBURG, PENNSYLVANIA, USA 17108

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 236.

DATA COLLECTED: JANUARY 1965 TO PRESENT

MONITORING PROJECTS:
FISH KILL INVESTIGATIONS IN MARYLAND WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
REPORTED FISH KILLS IN MARYLAND WATERS ARE INVESTIGATED. WATER ANALYSES AND ANALYSES OF FISH FOR CAUSE OF DEATH ARE CONDUCTED. COUNTS, SIZES, SPECIES LISTS AND VALUES FOR FISHES INVOLVED ARE RECORDED. (SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HOWARD KING 301-269-3783
FISHERIES ADMINISTRATION
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND, USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 40.

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DATA COLLECTED: JANUARY 1966 TO PRESENT

MONITORING PROJECTS:
EUTHROPHICATION STUDIES IN PAMLICO RIVER, ALBERMARLE SOUND, AND NEUSE RIVER, NORTH CAROLINA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NORTH CAROLINA, PAMLICO AND NEUSE RIVERS, ALBERMARLE SOUND

ABSTRACT:
EUTHROPHICATION STUDIES FOR THE PAMLICO RIVER WERE BEGUN IN 1966, FOR THE ALBERMARLE SOUND AND NEUSE RIVER STUDIES BEGUN IN 1970. PARAMETERS MONITORED INCLUDE TEMPERATURE, SALINITY, DISSOLVED OXYGEN, PHOSPHORUS, NITROGEN, AND CHLOROPHYLL. THIRTY STATIONS IN THE PAMLICO WERE SAMPLED BIWEEKLY, 15 STATIONS IN THE NEUSE RIVER, AND 15 STATIONS IN ALBERMARLE SOUND WERE SAMPLED MONTHLY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN E. HOBBIE 919-737-2589
DEPARTMENT OF ZOOLOGY
NORTH CAROLINA STATE UNIVERSITY
RALEIGH, NORTH CAROLINA, USA 27607

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 192.

DATA COLLECTED: 1967 TO PRESENT

MONITORING PROJECTS:
PEACH BOTTOM ATOMIC POWER STATION PREOPERATIONAL REPORT ON THE ECOLOGY OF CONOWINGO POND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., PENNSYLVANIA, MARYLAND, SUSQUEHANNA RIVER, CONOWINGO DAM TO HOLTWOOD DAM

ABSTRACT:
THIS STUDY WAS DESIGNED TO SERVE THE TWO PURPOSES OF ESTABLISHING BASELINE ECOLOGICAL DATA IN THE AREA OF AN ATOMIC POWER STATION AND OF MONITORING CHANGES THAT OCCURRED IN THE ECOLOGY OF THAT AREA BECAUSE OF THE OPERATION OF THE POWER STATION. BASIC WATER QUALITY PARAMETERS SUCH AS TEMPERATURE, PH, DISSOLVED OXYGEN AND CARBONATE/BICARBONATE CONTENT ARE INCLUDED WITH A COMPREHENSIVE BIOLOGICAL SURVEY COMPRISED OF TAXONOMIC LISTS AND POPULATIONS OF PHYTOPLANKTON, BENTHOS AND FISH. STATISTICAL ANALYSES OF FISH POPULATIONS AND FEEDING HABITS ARE INCLUDED AS ARE RESULTS OF AN EXPERIMENT TO DETERMINE TEMPERATURE PREFERENCES OF FISH.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
WALTER ROSENGARTEN 215-841-6380
PHILADELPHIA ELECTRIC COMPANY
2301 MARKET STREET
PHILADELPHIA, PENNSYLVANIA, USA 19101

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 239.

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DATA COLLECTED: JUNE 1968 TO PRESENT

MONITORING PROJECTS:
CHESAPEAKE BAY, CALVERT CLIFFS SURVEY REPORTS FOR THE BALTIMORE GAS AND ELECTRIC COMPANY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY

ABSTRACT:
TO DETERMINE THE ECOSYSTEM STRUCTURE AND ITS ECOLOGICAL CHARACTERISTICS, PARTICULARLY DIVERSITY, IN CERTAIN SELECTED, SHALLOW-WATER AREAS IN THE VICINITY OF CALVERT CLIFFS NUCLEAR GENERATING STATION. A BAY SURVEY IS BEING CARRIED OUT INCLUDING BIOLOGICAL, CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL STUDIES OF THE WATER. THE STUDY IS TO DETERMINE A BASELINE PICTURE OF CHESAPEAKE BAY CONDITIONS BEFORE PLANT OPERATIONS BEGIN.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215-567-3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA, PENNSYLVANIA, USA 19103

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 184.

DATA COLLECTED: JANUARY 1969 TO PRESENT

MONITORING PROJECTS:
CHEMICAL, BACTERIOLOGICAL AND PHYSICAL STUDY ON THE CHESAPEAKE BAY IN THE VICINITY OF CALVERT CLIFFS, MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U. S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:
WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR GENERATING STATION, MARYLAND ARE ANALYZED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) IN THE FORM OF YEARLY CONTRACT REPORTS BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-274-3134
BENEDICT ESTUARINE RESEARCH LABORATORY
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT, MARYLAND, USA 20612

N. G. LASSAHN 301-234-6188
BALTIMORE GAS AND ELECTRIC COMPANY
1020 GAS AND ELECTRIC BUILDING
LEXINGTON AND LIBERTY STREETS
BALTIMORE, MARYLAND, USA 21203

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 179.

325

DATA COLLECTED: JANUARY 1969 TO PRESENT

MONITORING PROJECTS:
PHYTOPLANKTON ECOLOGY IN ESTUARINE ENVIRONMENT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
INVESTIGATION INTO PHYTOPLANKTON ECOLOGY IN THE RHODE, SOUTH AND WEST RIVERS AND THE CHESAPEAKE BAY. DATA INCLUDES SPECIES DETERMINATION AND COUNTS FOR PHYTO- AND ZOOPLANKTON, PRODUCTIVITY, HETEROTROPHY, NUTRIENTS AND PHYSO-CHEMICAL PROPERTIES. (WRITE DR. SELIGER FOR BIBLIOGRAPHIC LISTING.)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. H. H. SELIGER 301-338-7330
DEPARTMENT OF BIOLOGY
THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND, USA 21218

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 202.

DATA COLLECTED: OCTOBER 1969 TO PRESENT

MONITORING PROJECTS:
HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEY

GENERAL GEOGRAPHIC AREA:
U. S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA, MARYLAND

ABSTRACT:
HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEYS ARE CONDUCTED BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY IN THE VICINITY OF THREE POWER GENERATING STATIONS IN MARYLAND. THEY ARE THE CHALK POINT STATION ON THE PATUXENT RIVER, THE MORGANTOWN GENERATING STATION ON THE POTOMAC RIVER AND THE CALVERT CLIFFS NUCLEAR GENERATING STATION ON THE CHESAPEAKE BAY. THE CONTRACT AGENCIES ARE THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) FOR THE CALVERT CLIFFS STATION AND THE POTOMAC ELECTRIC POWER COMPANY (PEPCO) FOR BOTH THE CHALK POINT AND THE MORGANTOWN STATIONS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-274-3134
BENEDICT ESTUARINE RESEARCH LABORATORY
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 120.



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DATA COLLECTED: DECEMBER 1969 TO PRESENT

MONITORING PROJECTS:
R/V EASTWARD CRUISE PROGRESS REPORTS, NORFOLK CANYON STUDIES, CAPE HATTERAS BIOGEOGRAPHIC STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CONTINENTAL SHELF OFF VIRGINIA AND NORTH CAROLINA

ABSTRACT:
YEARLY SURVEY OF HYDROGRAPHIC PARAMETERS AND ZOOPLANKTON ON THE CONTINENTAL SHELF AND SLOPE OFF THE COAST OF NORTH CAROLINA AND VIRGINIA. SAMPLING DESIGNED TO STUDY THE BIOGEOGRAPHIC REGIONS AND FAUNAL BOUNDARY NORTH AND SOUTH OF CAPE HATTERAS AS WELL AS THE NORFOLK CANYON AREA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
GEORGE GRANT 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 145.

DATA COLLECTED: MARCH 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY STUDIES IN THE POTOMAC RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, POTOMAC RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATIONS. SPECIAL EMPHASIS PLACED ON PRODUCTIVITY RATES OF THE NANNOPLANKTON (SAMPLED MARCH, MAY, JUNE, AUGUST, OCTOBER, NOVEMBER, 2 DAYS EACH MONTH).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 112.

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DATA COLLECTED: APRIL 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY STUDIES IN THE CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT CLIFFS

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY IN THE WATERS NEAR THE CALVERT CLIFFS POWER STATION; RESPIRATION RATES COMPUTED. VARIOUS BIOTIC AND ABIOTIC PARAMETERS MEASURED. SPECIAL EMPHASIS ON PRODUCTIVITY OF NANOPLANKTON. (STATION OCCUPIED IN APRIL, SEPTEMBER, DECEMBER).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 114.

DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
CARBON FLUX IN AN ESTUARINE MARSH

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
LEVELS OF ORGANIC AND INORGANIC CARBON, ADENOSINE TRIPHOSPHATE, OXYGEN AND SALINITY HAVE BEEN MEAUSRED ON WATER SAMPLES COLLECTED MONTHLY AT A DEPTH OF 6 INCHES IN THE CHESAPEAKE BAY, BEGINNING JUNE 1971 AND CONTINUING TO THE PRESENT.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 63.

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DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
THE ROLE OF MARSHES IN PHOSPHORUS, NITROGEN AND DETRITUS DYNAMICS OF COASTAL PLAIN ESTUARIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
PHOSPHORUS, NITROGEN AND DETRITUS DYNAMICS OF COASTAL ESTUARIES IN THE LOWER YORK RIVER. TWO STATIONS WERE SAMPLED EVERY MONTH AT HOURLY INTERVALS OVER A 24 HOUR CYCLE FROM 1971 TO THE PRESENT. DATA IS PART OF A DISSENTATION.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 71.

DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY STUDIES IN THE PATUXENT RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, PATUXENT RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON PRODUCTIVITY RATES OF THE NANOPLANKTON. (SAMPLED JULY, AUGUST, SEPTEMBER, OCTOBER).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 116.



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DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
EFFECTS OF NUCLEAR STATION OPERATIONS ON ESTUARINE SYSTEMS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT COUNTY

ABSTRACT:
STARTED IN JUNE OF 1971, THIS CONTINUING STUDY ON THE ECOLOGICAL EFFECTS OF NUCLEAR STEAM ELECTRIC STATION OPERATIONS ON THE ESTUARINE SYSTEMS ON THE WESTERN SHORE OF THE CHESAPEAKE BAY IN CALVERT COUNTY, MARYLAND IS CONCERNED WITH PARAMETERS SUCH AS WEATHER DATA, SALINITY, DISSOLVED OXYGEN, AND THE GENERAL CONDITIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ANIMALS INHABITING THE ECOSYSTEM.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-535-2121
HALLOWING POINT FIELD STATION
NATURAL RESOURCES INSTITUTE
ROUTE 1
PRINCE FREDERICK, MARYLAND, USA 20678

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 242.

DATA COLLECTED: AUGUST 1971 TO PRESENT

MONITORING PROJECTS:
NUTRIENT STUDIES ON THE RHODE RIVER ECOSYSTEM AND AUTOTROPHIC - HETEROTROPHIC PHOSPHORUS METABOLISM IN MICROBIAL COMMUNITIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:
EXTENSIVE BASELINE NUTRIENT STUDIES ON THE RHODE RIVER ECOSYSTEM INCLUDING HYDROGRAPHIC DATA, PHOSPHORUS METABOLISM OF PLANKTON AND PERIPHYTON, PRIMARY PRODUCTIVITY OF PERIPHYTON, UPLAND PLANTS, AND MARSH PLANTS, NEW TECHNIQUES FOR PHOSPHORUS METABOLISM STUDY IN PLANKTON AND PERIPHYTON.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID L. CORRELL 301-261-4190
CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
SMITHSONIAN INSTITUTION
ROUTE 4, BOX 622
EDGEWATER, MARYLAND, USA 21037

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 6.

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DATA COLLECTED: AUGUST 1971 TO PRESENT

MONITORING PROJECTS:
CALVERT CLIFFS WATER QUALITY AND PHYTOPLANKTON SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT CLIFFS

ABSTRACT:
PHYTOPLANKTON AND WATER QUALITY SAMPLES ARE OBTAINED AT BIWEEKLY INTERVALS FROM SEVEN STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR S.E.S. SITE ON THE WESTERN SHORE OF THE CHESAPEAKE BAY. DATA WILL BE USED FOR PRE- AND POST- OPERATIVE ASSESSMENT OF POWER PLANT'S ENVIRONMENTAL INFLUENCE. (PROGRESS REPORTS TO U. S. ATOMIC ENERGY COMMISSION).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-326-4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS, MARYLAND, USA 20688

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 54.

DATA COLLECTED: OCTOBER 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY IN THE AREA OF THE CALVERT CLIFFS OUTFALL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT CLIFFS

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON THE PRODUCTIVITY RATES OF NANNOPLANKTON.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 118.

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DATA COLLECTED: APRIL 1972 TO PRESENT

MONITORING PROJECTS:
VEPCO YORKTOWN POWER STATION ECOLOGICAL STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A CONTINUING ECOLOGICAL STUDY OF THE VEPCO YORKTOWN POWER STATION IN THE YORK RIVER CONSISTING OF 4 STATIONS SAMPLED MONTHLY FROM THE SURFACE TO THE BOTTOM AT 2 METER INTERVALS. PHYSICAL AND CHEMICAL PARAMETERS ARE STRESSED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT JORDAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 69.

DATA COLLECTED: JUNE 1972 TO PRESENT

MONITORING PROJECTS:
ENVIRONMENTAL CONSULTATION-WETLANDS LYNNHAVEN AREA OF LOWER CHESAPEAKE BAY AND ELIZABETH RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC COEAN, COASTAL, U. S., LOWER CHESAPEAKE BAY, VIRGINIA, LYNNHAVEN BAY, ELIZABETH RIVER

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND BIOLOGICAL PARAMETERS OF LOWER CHESAPEAKE BAY AND ELIZABETH RIVER, VIRGINIA. DATA COLLECTED IN CONJUNCTION WITH CONTRACT WORK FOR CONTRACTORS AND LAND DEVELOPERS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL KIRK 804-489-6000
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

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GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 139.

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DATA COLLECTED: AUGUST 1972 TO PRESENT

MONITORING PROJECTS:
CHLOROPHYLL AND SUSPENDED MATERIAL IN THE WATERS OF LOWER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., LOWER CHESAPEAKE BAY

ABSTRACT:
ONGOING STUDY (STARTED AUGUST 1972) OF CHLOROPHYLL AND SUSPENDED MATERIAL IN THE WATERS OF THE LOWER CHESAPEAKE BAY IN CONJUNCTION WITH REMOTE SENSING, NASA ERTS PROJECT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PETER FLEISCHER 804-489-6000
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 134.

DATA COLLECTED: SEPTEMBER 1972 TO PRESENT

MONITORING PROJECTS:
THE EFFECTS OF MORGANTOWN STEAM ELECTRIC STATION ON ORGANISMS PUMPED THROUGH A COOLING SYSTEM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, POTOMAC RIVER, MORGANTOWN

ABSTRACT:
EFFECTS ON ORGANISMS PUMPED THROUGH A COOLING SYSTEM AT THE MORGANTOWN, MARYLAND STEAM ELECTRIC STATION. FOLLOWING PATTERNS WERE MEASURED: TEMPERATURE, SALINITY, CHLORINITY, DISSOLVED OXYGEN, TOTAL CHLOROPHYLL, PHOTOSYNTHETIC RATE.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-535-2121
HALLOWING POINT FIELD STATION
NATURAL RESOURCES INSTITUTE
ROUTE 1
PRINCE FREDERICK, MARYLAND, USA 20678

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 108.



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DATA COLLECTED: MAY 1973 TO PRESENT

MONITORING PROJECTS:
HAMPTON ROADS SEWAGE OUTFALL SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, HAMPTON ROADS, ELIZABETH, JAMES AND LAFAYETTE RIVERS

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND WATER QUALITY PARAMETERS IN HAMPTON ROADS, VIRGINIA, NEAR SEVERAL SEWAGE TREATMENT PLANTS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DONALD ADAMS 804-489-6000
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 130.

DATA COLLECTED: MAY 1973 TO PRESENT

MONITORING PROJECTS:
NASA SKYLAB: APPLICATION OF SKYLAB IN THE STUDY OF COASTAL PRODUCTIVITY AREAS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, ASSATEAGUE ISLAND

ABSTRACT:
PROJECT TO CORRELATE CHLOROPHYLL AND PHYTOPLANKTON CONCENTRATIONS TO REMOTE SENSING TECHNIQUES. REMOTE SENSING WITH THE USE OF SKYLAB 2 IN COOPERATION WITH NASA, LANGLEY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HAROLD G. MARSHALL 804-489-6000
DEPARTMENT OF BIOLOGICAL SCIENCES
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

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GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 141.

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DATA COLLECTED: JULY 1973 TO PRESENT

MONITORING PROJECTS:
CHESTER RIVER SAMPLING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
MONTHLY WATER SAMPLES ARE OBTAINED FROM CHESTER RIVER BY CITIZENS OF CHESTERTOWN, MARYLAND AND ARE MEASURED FOR WATER QUALITY BY USE OF A TEST KIT.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-268-8816
CHESAPEAKE BAY FOUNDATION, INC.
BOX 1709
ANNAPOLIS, MARYLAND, USA 21404

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 17.

DATA COLLECTED: JULY 1973 TO PRESENT

MONITORING PROJECTS:
EVALUATION OF CHANNELIZATION EFFECTS ON AQUATIC HABITAT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, EASTERN SHORE

ABSTRACT:
EXTENSIVE DATA BASE ON 19 CHANNELIZED STREAMS INCLUDING WATER CHEMISTRY, BENTHOS, AND FISHES. COMPARISONS ACROSS STREAMS BASED UPON TIME SINCE CHANNELIZED. DETERMINATION OF RECOVERY TIME AND SEQUENCE OF BIOTA AND CHEMICAL FACTORS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
W. C. CARTER 301-269-5361
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND, USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 48.

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DATA COLLECTED: JULY 1973 TO PRESENT

MONITORING PROJECTS:
LOWER RIVER TRIBUTARY DATA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., DELAWARE, DELAWARE RIVER BASIN

ABSTRACT:
FISH WERE SAMPLED MONTHLY FROM 21 STATIONS IN THE DELAWARE RIVER TRIBUTARIES EMPLOYING OTTER TRAWL, FRAME TRAWL, AND HALL SEINE. CHLORINE, PH, TURBIDITY, ORTHOPHOSPHATE, NITRATE, CARBON DIOXIDE, HARDNESS, ALKALINITY, DISSOLVED OXYGEN, AND TEMPERATURE WERE MONITORED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH P. MILLER 609-397-0115
DELAWARE RIVER BASIN, ANADROMOUS FISHERIES STUDY
P. O. BOX 95
ROSEMONT, NEW JERSEY, USA 08556

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 194.

DATA COLLECTED: MARCH 1974 TO PRESENT

MONITORING PROJECTS:
PHYTOPLANKTON RESPONSE TO WATER QUALITY IN THE CHOWAN RIVER ESTUARY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NORTH CAROLINA, CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR WATER QUALITY AND HOW IT AFFECTS POPULATIONS OF PHYTOPLANKTON IN THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A. M. WITHERSPOON 919-737-2589
DEPARTMENT OF BOTANY
NORTH CAROLINA STATE UNIVERSITY
RALEIGH, NORTH CAROLINA, USA 27607

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 198.

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DATA COLLECTED: JULY 1974 TO PRESENT

MONITORING PROJECTS:
POLLUTION FROM RURAL LAND RUNOFF IN CHOWAN RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NORTH CAROLINA, CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR CHEMICAL AND WASTE POLLUTION AND ITS RUNOFF INTO THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A. M. WITHERSPOON 919-737-2589
DEPARTMENT OF BOTANY
NORTH CAROLINA STATE UNIVERSITY
RALEIGH, NORTH CAROLINA, USA 27607

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 200.